TITLE V OPERATING PERMIT

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-33 of the Regulations of Connecticut State Agencies (RCSA) and pursuant to the Code of Federal Regulations (CFR), Title 40, Part 70.

Title V Permit Number	070 – 0194 - TV
Client/ Sequence /Town/Premises Numbers	800-001-070-0028
Date Issued	August 26, 2003
Expiration Date	August 25, 2008

Corporation:

U.S. Navy, Submarine Base New London

Premises location:

Groton, Connecticut 06349-5039

Name of Responsible Official and Title:

James E. Ratte, Jr., Commanding Officer

All pages 1 through 100 inclusive, of this document are hereby incorporated by reference into this Title V Operating Permit.

ARTHUR J ROCQUE, JR
Arthur J. Rocque, Jr.
Commissioner

8/26/03
Date

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LIST OF ACRONYMS

ACRONYM	DESCRIPTION
^{o}F	Degrees Fahrenheit
ACFM	Actual Cubic Feet per Minute
ASC	Actual Stack Concentration
CAAA	Clean Air Act Amendments of 1990
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
CO_2	Carbon Dioxide
DEP	Department of Environmental Protection
DERC	Discrete Emission Reduction Credit
EMU	Emissions Unit
EPA	Environmental Protection Agency
FT^2	Square Feet
GAL	Gallon
GEMU	Grouped Emissions Units
HAP	Hazardous Air Pollutant
HLV	Hazard Limiting Value
HR	Hour
LB	Pounds
M^3	Cubic Meters
MASC	Maximum Allowable Stack Concentration
MACT	Maximum Achievable Control Technology
MIN	Minutes
MSDS	Material Safety Data Sheet
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOV	Notice of Violation
NOx	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
O_2	Oxygen
P	Permit
PM-10	Particulate Matter less than 10 microns
PSIG	Pounds per Square Inch (gage)
R	Registration
RCSA	Regulations of Connecticut State Agencies
SCFM	Standard Cubic Feet per Minute
SIC	Standard Industrial Classification Code
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
TPY	Tons per 12 Consecutive Months
TSP	Total Suspended Particulate
$\mu g/m^3$	Micrograms per cubic meter
VOC	Volatile Organic Compound
VOHAP	Volatile Organic Hazardous Air Pollutant

Title V Operating Permit

All conditions in Sections III, IV, VI and VII of this permit are enforceable by both the Administrator and the Commissioner unless otherwise specified. Applicable requirements and compliance demonstration are set forth in Section III of this permit. The Administrator or any citizen of the United States may bring an action to enforce all permit terms or conditions or requirements contained in Sections III, IV, VI and VII of this permit in accordance with the Clean Air Act (CAA), as amended.

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: National Defense
Primary SIC: 9711

Facility Mailing Address: Naval Submarine Base New London
Environmental Department, Code N8S
Box 39
Groton, CT 06349-5039

Telephone Number: (860) 694-5159

B. PREMISES DESCRIPTION

The United States Navy owns and operates the Naval Submarine Base New London located in the towns of Groton and Ledyard, Connecticut. Emission sources include boilers, a cogeneration system, emergency engines, non-emergency engines, cold parts cleaners, paint-spray booths, solvent dip tanks, drydock and pierside coating operations, metal and wood working shops, grit blast stations, fuel dispensing systems and underground storage tanks.

Four large boilers located in building 29 produce superheated, high pressure steam that is used to generate electricity and heat buildings throughout the Base. The three boilers are registered (R 070-0196, 197 & 198) and have been grouped into GEMU-001. The fourth large boiler was issued permit 070-0074 on 8/9/94 and has been designated EMU-005.

The 200 HP Kewanee Boiler is located in building 325. It does not require registration or permit. It has been designated EMU-006.

The Solar Taurus 60 Turbine Generator, located in Building 29, supplies electrical power and steam for the facility. The unit burns primarily natural gas and No. 2 fuel oil as a back-up fuel. The cogeneration system was issued permit 070-0096 on 4/3/97. It has been designated EMU-007.

The Waukesha Generator, located in building 29, provides electrical power for black start purposes and peak shaving. The generator was issued permit 070-0061 on 7/8/88. It has been designated EMU-008.

The Fairbanks Morse Generator, located in building 519, is used by the Naval Submarine School as a training tool to simulate the diesel engines used on submarines. The generator does not require registration or permit. However, operation of this generator is covered under Consent Order No. 7020. It has been designated EMU-009.

A dynamometer, located in building 89, is used to test diesel engines. There are currently no applicable requirements. It has been designated EMU-050.

All Boilers/Burners that do not require registration or permit have been grouped into GEMU-002. All Emergency Engines that are subject to Section 3b(e) of the Regulations have been grouped into GEMU-003. All Emergency Engines that are subject to Sections 3b(e) and 22 of the Regulations have been grouped into GEMU-004. All Emergency Engines that do not require registration or permit have been grouped into GEMU-005. All Non-Emergency Engines that do not require registration or permit have been grouped into GEMU-006.

All Solvent Cleaners that do not require registration or permit have been grouped into GEMU-007.

B. PREMISES DESCRIPTION, continued

A Paint Booth, located in building 38, coats wood products using air atomized spray guns. Particulate emissions are controlled with a HEPA filter. It has been designated EMU-086.

All miscellaneous metal parts coating operations that are subject to Sections 22a-174-3b(g) and 22a-174-20(s) of the Regulations have been grouped into GEMU-008. Included in this group are 2 electrostatic powder paint systems (EMU-126 & EMU-127) and the associated electric ovens (EMU-134 and EMU-138). Particulate emissions are controlled with a HEPA filter.

All non-metal coating operations that are subject to Section 22a-174-3b(g) of the Regulations & the NESHAP for Shipbuilding and Ship Repair have been grouped into GEMU-009. Included in this group are an airless air-assisted spray booth for fiberglass masts (EMU-162), a fiberglass paint booth (EMU-204) and mast spray booth (EMU-236). Particulate emissions are controlled with a HEPA filter.

All coating operations that are subject to Section 22a-174-20(s) of the Regulations and Consent Order 8049 have been grouped into GEMU-010. Included in this group are the work booth (EMU-237), in building 456, and the plasti-sol tanks (EMU-238), in building 174, with their associated electric ovens (EMU-239 & EMU-240).

All coating operations that are subject to the NESHAP for Shipbuilding and Ship Repair have been grouped into GEMU-011. Included in this group are Shippingport Drydock Submarine Maintenance (ARDM-4), Electric Boat Submarine Maintenance (Barge 21), and Portsmouth NSY Submarine Maintenance (Pier 13).

The Walk-in Abrasive Blast Booth is located in building 174. Particulate emissions are controlled with a HEPA filter. The Abrasive Blast Booth was issued permit 070-0231 on 9/10/01. It has been designated EMU-131.

Gasoline Dispensing facilities, including the associated underground storage tanks, are operated at buildings 428 and 460. A Vapor Lock Balance Recovery System/Stage II controls VOC emissions. They are designated EMU-081 and EMU-083, respectively.

The three large boilers (GEMU-001) and the Fairbanks Morse Generator #519 (EMU-009) are covered by Trading Agreement and Order No. 8112A for NOx Emissions Trading.

The facility is subject to the National Emission Standards for Radionuclide Emissions in 40 CFR Part 61 Subpart I. The primary source of radionuclide emissions is the radioactive materials associated with the maintenance and overhaul of nuclear powered ships.

The facility is subject to the National Emission Standards for Asbestos in 40 CFR Part 61 Subpart M. The source of asbestos emissions is building demolition and renovation.

The facility contains a number of refrigerant containing devices whose capacity is large enough (50 pounds or greater) that are subject to the recycling and emissions reduction provisions in 40 CFR Part 82 Subpart F. These devices include refrigerators, chillers, condensers, air conditioners, dehumidifiers and fire suppression systems.

Section II: Emissions Units Information

A. EMISSIONS UNITS INFORMATION

Emission units are set forth in Table II.A.1.

TABLE II.A.1: EMISSIONS UNITS DESCRIPTION

Emissions Unit	Emissions Unit Description	Control Unit Description	NSR Permit, Order, or Registration Number*
GEMU-001	Babcock & Wilcox Boiler #1 Babcock & Wilcox Boiler #2 Babcock & Wilcox Boiler #3	Low NOx burner Low NOx burner Low NOx burner	R 070-0196 R 070-0197 R 070-0198, Collateral Conditions in P 070-0096 Part X.1-6, Trading Agreement & Order-8112A
EMU-005	IBW Boiler #4	Low NOx burner	P 070-0074
EMU-006	Kewanee Boiler #325	None	None
EMU-007	Solar Taurus 60 Turbine 5MW Combined Cycle Cogeneration System with Heat Recovery Steam Generator	Water Injection CO oxidation catalyst Low NOx Duct Burner	P 070-0096
EMU-008	Waukesha Generator #29	None	P 070-0061
EMU-009	Fairbanks Morse Generator #519	None	Consent Order 7020, Trading Agreement & Order-8112A
GEMU-002	Miscellaneous Boilers/Burners	None	None
GEMU-003	Miscellaneous Emergency Engines subject to Section 3b(e) (PTE > 15tpy)	None	None
GEMU-004	Miscellaneous Emergency Engines subject to Section 3b(e) (PTE > 15tpy) and Section 22 (BTU > 3 MM)	None	None
GEMU-005	Miscellaneous Emergency Engines PTE < 15tpy	None	None
GEMU-006	Miscellaneous Non-Emergency Engines	None	None

Section II: Emissions Units Information

A. EMISSIONS UNITS INFORMATION, continued

TABLE II.A.1: EMISSIONS UNITS DESCRIPTION, continued

Emissions Unit	Emissions Unit Description	Control Unit Description	NSR Permit, Order, or Registration Number*
GEMU-007	Miscellaneous Solvent Cleaners	None	None
EMU-086	Paint Booth for wood	HEPA filter	None
GEMU-008	Coating Systems for miscellaneous metal parts subject to Sections 3b(g) & 20(s)	HEPA filter	None
GEMU-009	Coating Systems for non-metal parts subject to Section 3b(g) & NESHAP	HEPA filter	None
GEMU-010	Coating operations subject to Section 20(s) & Consent Order 8049	HEPA filter	Consent Order 8049
GEMU-011	Miscellaneous Coating subject to NESHAP	None	None
EMU-131	Walk-in Abrasive Blast Booth	HEPA Filter	P 070-0231
EMU-081	Gasoline Dispensing (B-428) and 3 Underground Gasoline Storage Tanks	Vapor Lock Balance Recovery System/Stage II	None
EMU-083	Gasoline Dispensing (B-460) and Aboveground Gasoline Storage Tank	None	None

(*) It is not intended to incorporate by reference these NSR Permits, Orders, or Registrations into this Title V Operating Permit.

Section II: Emissions Units Information

A. EMISSIONS UNITS INFORMATION, continued

The permittee shall be allowed to operate under the following Standard Operating Scenario without notifying the Commissioner, provided that such operations are explicitly provided for and described in the table below. There are no Alternate Operating Scenarios for the premises.

TABLE II.A.2: OPERATING SCENARIO IDENTIFICATION

Emissions Units Associated with the Scenarios	Description of Scenarios
GEMU-001, EMU-005, EMU-006, EMU-007, GEMU-002	The standard operation of the boilers and the cogeneration system is to provide steam for building heat and electricity.
EMU-008	The standard operation of the Waukesha Generator is to provide electrical power for black start purposes and peak shaving.
EMU-009	The standard operation of the Fairbanks Morse Generator is as a training tool for the Naval Submarine School to simulate the diesel engines used on submarines.
EMU-050	The standard operation of the dynamometer is to test submarine diesel engines.
GEMU-003, GEMU-004, GEMU-005	The standard operation of the emergency engines is to provide emergency power for operations in the facility.
GEMU-006	The standard operation of the non-emergency engines is to provide power for operations in the facility.
GEMU-007	The standard operation of the Miscellaneous Solvent Cleaners is to remove soils from metal parts.

TABLE II.A.2: OPERATING SCENARIO IDENTIFICATION, continued	
Emissions Units Associated with the Scenarios	**Description of Scenarios**
EMU-086	The standard operation of the paint booth is to coat wood products.
GEMU-008, GEMU-010	The standard operation of the coating operations is to coat miscellaneous metal parts.
GEMU-009	The standard operation of the coating operations is to coat non-metal parts, including fiberglass parts.
GEMU-011	The standard operation of the coating operations is ship coating.
EMU-131	The standard operation of the Abrasive Blasting is to remove paint from metal parts.
EMU-081, EMU-083	The standard operation of the dispensing operations is to provide gasoline for vehicles at the facility. The standard operation of the storage tanks is to provide gasoline storage for the dispensing operations.

Section III: Applicable Requirements and Compliance Demonstration

The following tables contain summaries of applicable regulations and compliance demonstration for each identified Emissions Unit and Operating Scenario regulated by this permit.

A. GROUPED EMISSIONS UNITS GEMU-001

Table III.A: GROUPED EMISSIONS UNITS GEMU-001

Pollutants or Process Parameters	Compliance Demonstration Requirements
1. Fuel Usage	Limitations or Restrictions Each boiler shall combust only natural gas and No. 2 fuel oil with a sulfur content less than 0.3%, dry weight. [P 070-0096 Part X.2] These three boilers combined shall be limited to a maximum heat input over any consecutive twelve (12) month period of 725,750 MMBTU. [P 070-0096 Part X.3] i. Monitoring and Testing Requirements The Permittee shall monitor the fuel usage in the three powerhouse boilers, using either fuel purchase receipts or a fuel meter. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the monthly and consecutive twelve (12) month natural gas and No. 2 fuel oil usage in the three powerhouse boilers. The consecutive twelve month fuel usage shall be calculated each calendar month by adding the current month's fuel usage to that of the previous eleven months. The Permittee shall record these figures monthly. [RCSA §22a-174-4(c)(1)]

Table III.A: GROUPED EMISSIONS UNITS GEMU-001, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
2. Sulfur content	Limitations or Restrictions No person, except as provided in RCSA §22a-174-19(a)(2)(ii), (a)(3)(i), and (a)(3)(ii), shall use or burn fuel which contains sulfur in excess of a maximum of one percent (1.0%) by weight (dry basis). [RCSA §22a-174-19(a)(2)(i)] Each boiler shall combust No. 2 fuel oil with a sulfur content less than 0.3%, dry weight. [P 070-0096 Part X.2] i. Monitoring and Testing Requirements The Permittee shall monitor the sulfur content of the No. 2 fuel oil burned in the three powerhouse boilers, using either a fuel certification for a delivery of fuel from a bulk petroleum provider or a copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the sulfur content of the No. 2 fuel oil burned in the three powerhouse boilers. Records for a fuel certification shall include the following information: the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. Records for a contract shall include the following information: the name of the fuel supplier, the type of fuel delivered, and the percentage of sulfur in such fuel, by weight, dry basis. [RCSA §22a-174-4(c)(1)]

Table III.A: GROUPED EMISSIONS UNITS GEMU-001, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
3. Operation	Limitations or Restrictions No more than two of the three powerhouse boilers shall operate simultaneously with the Cogeneration System. [P 070-0096 Part X.4] i. Monitoring and Testing Requirements The Permittee shall monitor the times of operation of the three powerhouse boilers and the cogeneration system, using log entries by the responsible individual. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the operation of the three powerhouse boilers and the cogeneration system. Records shall include the name of the responsible individual, the date and the times each unit is run each day. [RCSA §22a-174-4(c)(1)]

Table III.A: GROUPED EMISSIONS UNITS GEMU-001, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
4. Emission Rates	Limitations or Restrictions No person shall cause or permit the emission from fuel burning equipment of particulate matter in excess of the limitations listed in table 18-D-1. For all other sources that burn all fuels except residual oil, the limit is 0.20 pounds of particulate matter per million BTU of heat input. [RCSA §22a-174-18(d)(1)] Each of the three powerhouse boilers shall not exceed the following emission rates. [P 070-0096 Part X.5]

Pollutant	Natural Gas lb/MMBTU	No. 2 Oil lb/MMBTU
TSP	0.010	0.010
PM-10	0.010	0.010
SOx	0.002	0.312
NOx	0.150	0.150
VOC	0.016	0.020
CO	0.073	0.033

i. Monitoring and Testing Requirements

The Permittee shall demonstrate compliance with the above emission limits for the three powerhouse boilers using emission factors from the following sources: [RCSA §22a-174-33(j)(1)(K)(ii)]

a. TSP, PM-10, VOC (for all fuels): Compilation of Air Pollutant Emission Factors, AP-42, Fifth edition, January 1995.
b. SOx (for #2 oil): CTDEP emission factor of 143.5 S lb/1000 gal for #2 oil, where S is the maximum percent sulfur content by weight. SOx (for natural gas): Compilation of Air Pollutant Emission Factors, AP-42, Fifth edition, January 1995.
c. NOx (for all fuels): Most recent stack test data.
d. CO (for all fuels): Boiler #1 stack test by Air Tox, Inc. on April 1997; Boilers #2 & #3 stack test by CKE on May 1996.

ii. Record Keeping Requirements

The Permittee shall make and keep records for the three powerhouse boilers demonstrating compliance with the lb/MMBTU limitations. [RCSA §22a-174-4(c)(1)]

Table III.A: GROUPED EMISSIONS UNITS GEMU-001, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
5. NOx	Limitations or Restrictions The owner or operator of a stationary source that, on or after January 1, 1990, converts the fuel used at such source, shall not cause or allow emissions of NOx from such source in excess of 0.225 pounds per MMBTU, if such source burned residual oil to provide more than fifty percent (50%) of its total heat input during the last full calendar year immediately prior to such conversion. [RCSA §22a-174-22(f)(3)(B)] Each boiler shall be equipped with a state of the art low NOx burner technology. [P 070-0096 Part X.1] Each of the three powerhouse boilers shall not exceed a NOx emission rate of 0.15 lb/MMBTU. [P 070-0096 Part X.5] Should any of these boilers exceed the NOx limit of 0.15 lb/MMBTU, the U.S. Naval Submarine Base shall still prove offset compliance by meeting the three boiler aggregate hourly limit of 58.8 lb/hr and the consecutive twelve month limit of 62 tons per year. [P 070-0096 Part X.6] i. Monitoring and Testing Requirements The Permittee shall conduct an emission test at least once every five years for the three powerhouse boilers to demonstrate compliance with RCSA §22a-174-22. [RCSA §22a-174-22(k)(1)] The Permittee shall demonstrate compliance with the emission limitations of this section using sampling and analytical procedures approved under 40 CFR Part 60, Appendix A, or under procedures in RCSA §22a-174-5(d). [RCSA §22a-174-22(k)(2)] ii. Record Keeping Requirements The Permittee shall make and keep the records for the three powerhouse boilers as described below. a. Monthly and annual records (e.g. fuel use, continuous emissions monitoring, operating hours) to determine whether NOx emissions from such premises in any calendar year are in excess of twenty-five (25) tons for a premises located in a severe nonattainment area for ozone or fifty (50) tons for a premises located in a serious nonattainment area for ozone; [RCSA §22a-174-22(l)(1)(C)] b. Records of all tune-ups, repairs, replacement of parts and other maintenance; [RCSA §22a-174-22(l)(1)(D)] c. Copies of all documents submitted to the Commissioner pursuant to this section; [RCSA §22a-174-22(l)(1)(E)] d. Procedures for calculating NOx emission rates in RCSA §22a-174-22(l)(1)(C); [RCSA §22a-174-22(l)(1)(G)] e. Records of the dates, times and places of all emission testing required by this section, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA §22a-174-22(l)(1)(H)] iii. Reporting Requirements Within thirty (30) day of completion of emission tests conducted under the requirements of subdivision (k)(1) of this section, the owner or operator of such source shall submit a written report of the results of such testing to the Commissioner. [RCSA §22a-174-22(l)(2)] On or before April 15 of each year, the owner or operator of a stationary source subject to this section shall submit a report on NOx emissions from such source, on a form provided by the Commissioner. [RCSA §22a-174-22(l)(6)]

Table III.A: GROUPED EMISSIONS UNITS GEMU-001, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
6. Trading Agreement	Limitations or Restrictions The Permittee (SUBASENLON) shall comply with the provisions of Trading Agreement and Order No. 8112A. At the facility, SUBASENLON operates the following fuel-burning equipment: one (1) diesel powered electric generator (diesel generator #519) which is used exclusively for training of personnel in operation and maintenance of such engines on board submarines, and boilers 1, 2, and 3 (boilers 1, 2 and 3) that are subject to Section 22a-174-22 of the Regulations of Connecticut State Agencies, pertaining to control of NOx emissions. [Trading Agreement and Order 8112A Paragraph A.3] Emissions testing resulted in NOx emissions rates for diesel generator 519, in grams per horsepower hour ("gm/HP-hr") and boilers 1, 2 and 3 in pounds per million British thermal units ("lbs/MMBtu") as follows: [Trading Agreement and Order 8112A Paragraph A.4] **Table 1** **SUBASENLON -Emission Test Results, Allowable Emission Limits an FLERs in gm/HP-hr or lb/MMBtu** Unit / Fuel / Emission Test Rate #2oil/Nat.Gas / FLER / Allowable Emission Limits / Emission Test Date / Next Emission Test Due Gen. #519 / #2 diesel oil / 19.88 / 24.63 / 8 / 11/19/02 / 11/19/07 Boiler 1 / #2oil/Nat.Gas / 0.145 / 0.086 / 0.143 / 0.126 / 0.20 / 6/20/02 / 6/20/07 Boiler 2 / #2oil/Nat.Gas / 0.158 / 0.096 / 0.144 / 0.099 / 0.20 / 6/19-20/02 / 6/19-20/07 Boiler 3 / #2oil/Nat.Gas / 0.134 / 0.090 / 0.134 / 0.076 / 0.20 / 12/11/01 / 12/11/06 SUBASENLON is in excess of the allowable limits in Section 22a-174-22(e) of the Regulations as shown in Table 1 of this Trading Agreement and Order when operating diesel generator 519. [Trading Agreement and Order 8112A Paragraph A.5] Pursuant to Section 22a-174-22(j) of the Regulations SUBASENLON proposes to comply with Section 22a-174-22(e) of the Regulations, for diesel generator 519's emissions, through the use of approved DERCs until April 30, 2007 at the facility in accordance with this Trading Agreement and Order. [Trading Agreement and Order 8112A Paragraph A.7] Emissions testing performed for boilers 1, 2 and 3 resulted in NOx emissions rates as shown in table 1. [Trading Agreement and Order 8112A Paragraph A.8]

Table III.A: GROUPED EMISSIONS UNITS GEMU-001, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
6. Trading Agreement, continued	Limitations or Restrictions, continued SUBASENLON is in excess of the generation FLERs, as shown in Table 1, when operating boiler 1, 2 and 3. [Trading Agreement and Order 8112A Paragraph A.9] The Commissioner, pursuant to Section 22a-174-22 of the Regulations, previously approved the NOx DERCs referenced in Table 2 of this Trading Agreement and Order. DERC creation serial numbers if assigned by the Department to these previously approved DERCs are provided in Table 2 of this Trading Agreement and Order. Unused DERCs are subject to the vintage restrictions of this Trading Agreement and Order. Dates after which the unused DERCs will no longer be eligible for use as a result of the vintage restrictions are provided in Table 2 of this Trading Agreement and Order in the expiration date column. [Trading Agreement and Order 8112A Paragraph A.12]

Table 2

SUBASENLON - DERCs Previously Purchased and Generated (to the extent not already used)

Year of Gen.	Ozone season NOx DERC serial numbers	Ozone Season DERCs	Non-ozone season NOx DERC serial numbers	Non-ozone season DERCs	Expiration Date
1996	Generated S/N Not assigned	14.2	GeneratedS/N Not assigned	17.1	12/31/04
1996	Generated S/N Not assigned	26	N/A	N/A	12/31/04
1997	Generated S/N Not assigned	19	N/A	N/A	12/31/04
1997	Generated S/N Not assigned	1.74	GeneratedS/N Not assigned	11.07	12/31/04
1998	CT98/8112(DC)NOxoz(1)	1	CT98/8112(DC)Noxnoz(1-4)	4	12/31/04
1999	N/A	N/A	CT99/8112(DC)Noxnoz(1-4)	4	12/31/04
2000	CT00/8112(DC)NOxoz(1)	1	CT00/8112(DC)Noxnoz(1-5)	5	12/31/05
2001	N/A	N/A	CT01/8112(DC)Noxnoz(1-2)	2	12/31/06
2002	CT02/8112(DC)NOxoz(1)	1	CT02/8112(DC)Noxnoz(1-2)	2	12/31/07

The Commissioner in accordance with the provisions of this Trading Agreement and Order, and pursuant to Sections 22a-174-22(d)(3), (e) and (j) of the Regulations hereby allows SUBASENLON to comply with Section 22a-174-22 of the Regulations through the use of DERC trading and the emissions limitations at the facility as provided herein. [Trading Agreement and Order 8112A Paragraph B]

Upon issuance of this Trading Agreement and Order, SUBASENLON shall: [Trading Agreement and Order 8112A Paragraph C.1]

a) No longer create new DERCs using boilers 1, 2and 3 at the facility; and
b) Submit to the Commissioner a certification that it has retired without use, 8 tons of DERCs to offset FLER exceedance in NOV No. 14895.

Table III.A: GROUPED EMISSIONS UNITS GEMU-001, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
6. Trading Agreement, continued	Limitations or Restrictions, continued Upon issuance of this Trading Agreement and Order at the facility, SUBASENLON shall comply with Section 22a-174-22 of the Regulations through emission reduction trading until the diesel generator 519 achieves permanent compliance with the emission standard in Section 22a-174-22(e) of the Regulations or by April 30, 2007, whichever is earlier, as follows: [Trading Agreement and Order 8112A Paragraph C.2] a) SUBASENLON shall use approved DERCs as required under this Trading Agreement and Order; b) SUBASENLON shall have in its possession sufficient approved DERCs to meet the applicable NOx emission limits as allowed under this Trading Agreement and Order; and c) SUBASENLON shall comply during operation of each peaking unit with the FLERs shown in Table 1 of this Trading Agreement and Order. i. Monitoring and Testing Requirements The Permittee shall monitor the number of DERCs in its possession, purchased and used (by serial number if assigned) each month. [RCSA §22a-174-33(j)(1)(K)(ii)] a) Until April 30, 2007 before the first day of each month SUBASENLON shall have in its possession sufficient approved DERCs for the upcoming ozone season, based on the following calculations (described also in Exhibit 1); [Trading Agreement and Order 8112A Paragraph C.3] Before the first day of each month SUBASENLON shall estimate DERCs required for such month for the diesel generator 519 as follows: (i) At all times (mass calculation): Estimate DERCs (tons) on a mass basis = [Number of ozone months x estimated gal/month x heat input in MMBtu/gal x (FLER grams/HP-hr - (Allowable limit in grams/HP-hr x 0.95[(1)])) x EFF. [(2)] x HP-hr/0.002544 MMBtu x lbs/453.6 grams] ÷ 2000 pounds/ton. Where: [(1)] Equivalent to a 5% design margin [(2)] Manufacturer's engine efficiency = 37% for diesel generator 519. (ii) During the ozone season only (peak day calculation): The estimated maximum excess NOx emissions (in lbs) on any of the days projected by the Commissioner to be "moderate to unhealthful", "unhealthful" or "very unhealthful" divided by 3 and then divided by 13 (with the result in tons): Estimate DERCs (in tons) = [(Estimate excess NOx in lbs x maximum estimated hours/24 hr ratio of operating hours) ÷ 3] ÷ [13 lbs/day/ton]

Table III.A: GROUPED EMISSIONS UNITS GEMU-001, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
6. Trading Agreement, continued	i. Monitoring and Testing Requirements, continued b) No later than October 30 of 2003, 2004, 2005, and 2006 calculate and permanently retire the DERCs used in the preceding ozone season as the greater of: (i) the actual total excess emissions for the ozone season in tons, as follows: Actual DERCs (tons) on a mass basis = [Number of ozone months x actual gal/month x heat input in MMBtu/gal x (FLER grams/HP-hr - (Allowable limit in grams/HP-hr x 0.95)) x EFF. x HP-hr/0.002544 MMBtu x lbs/453.6 grams] ÷ 2000 pounds/ton. OR (ii) the actual excess NOx emissions (in lbs) on any of the days projected by the Commissioner to be "moderate to unhealthful", "unhealthful", or "very unhealthful", divided by 3 and then divided by 13 (with the result in tons): DERCs (in tons) = [(Actual daily excess NOx in lbs on a mass basis x actual hours/24 hr ratio of operating hours) ÷ 3] ÷ 13 lbs/day/ton] As described in Exhibit 1 of this Trading Agreement and Order, to the extent that DERCs used to offset on peak day basis (method (ii)) exceed the total mass excess emissions (method (i)), remaining DERCs may be used in the non-ozone season in the same or subsequent years through April 30, 2007. ii. Record Keeping Requirements SUBASENLON shall make and keep records of: daily fuel use and fuel type, excess NOx emissions; the number of DERCs in its possession, created, purchased and used (by serial number if assigned) each month, as in accordance with the appropriate emission rates and limits of this Trading Agreement and Order; the number of DERCs used in the ozone season and non-ozone season (the remainder of the year), the daily ozone classification as forecasted by the Commissioner on the previous day; well as documentation attesting to the fact that approved DERCs used in the ozone season were created during the ozone season. Generator certification of this fact shall be sufficient. [Trading Agreement and Order 8112A Paragraph C.4] SUBASENLON shall retain records and supporting documentation as described in this Trading Agreement and Order for a minimum of five years, commencing on the date such records were created. SUBASENLON shall provide the records specified above to the Commissioner within thirty (30) days of receipt of a written request from the Commissioner. All records shall be maintained in accordance with Sections 22a-174-4 and 22a-174-22 of the Regulations. [Trading Agreement and Order 8112A Paragraph C.5]

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: GROUPED EMISSIONS UNITS GEMU-001, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
6. Trading Agreement, continued	iii. Reporting Requirements No later than March 1, of every year after issuance of this Trading Agreement and Order, SUBASENLON shall include with the Annual Emission Statement provided to the Commissioner, a record of each sale or other transfer, and use of any and all of the DERCs approved within and subsequent to issuance of this Trading Agreement and Order until all such DERCs have been used. SUBASENLON shall also include the amounts of all DERCs used including serial number (if assigned) and/or purchased from other facilities, and/or approved for the previous calendar year. These reports shall be on a form prescribed by the Commissioner. [Trading Agreement and Order 8112A Paragraph C.11] On or before September 1, 2006, SUBASENLON shall submit a report indicating how the facility will comply with Section 22a-174-22 of the Regulations after April 30, 2007. [Trading Agreement and Order 8112A Paragraph C.13] Within 15 days of the date SUBASENLON becomes aware of any change in any information submitted to the Commissioner under this Trading Agreement and Order, or that any such information was inaccurate or misleading or that any relevant information was omitted, SUBASENLON shall submit the correct or omitted information to the Commissioner. [Trading Agreement and Order 8112A Paragraph C.28] In the event that SUBASENLON becomes aware that it did not or may not comply, or did not or may not comply on time, with any requirement of this Trading Agreement and Order or of any document required hereunder, SUBASENLON shall immediately notify by telephone the individual identified in the next paragraph and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. Within five (5) days of the initial notice, SUBASENLON shall submit in writing the date, time, and duration of the noncompliance and the reasons for the noncompliance or delay and propose, for the review and written approval of the Commissioner, dates by which compliance shall be achieved, and SUBASENLON shall comply with any dates which may be approved in writing by the Commissioner. Notification by SUBASENLON shall not excuse noncompliance or delay, and the Commissioner's approval of any compliance dates proposed shall not excuse noncompliance or delay unless specifically so stated by the Commissioner in writing. [Trading Agreement and Order 8112A Paragraph C.29]

Section III: Applicable Requirements and Compliance Demonstration

B. EMISSIONS UNIT EMU-005

Table III.B: EMISSIONS UNIT EMU-005	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
1. Fuel Usage	Limitations or Restrictions The International Boiler Works (IBW) VSG 74.2 Watertube Boiler is limited to a maximum fuel consumption over any consecutive 12 month period of 4,177,303 gallons of No. 2 fuel oil and 657 million cubic feet of natural gas. [P 070-0074 Part I.2] i. Monitoring and Testing Requirements The Permittee shall monitor the fuel usage in the International Boiler Works Boiler, using either fuel purchase receipts or a fuel meter. [RCSA §22a-174-33(j)(1)(K)(ii)] When more than one fuel supply tank is to service this source or when multiple sources are supplied by one fuel tank, the Permittee shall use a fuel metering device to continuously monitor fuel feed to this permitted source. [P 070-0074 Part IV.2] ii. Record Keeping Requirements The Permittee shall make and keep records of the monthly and consecutive twelve month No. 2 fuel oil and natural gas usage in the International Boiler Works Boiler. The consecutive twelve month fuel usage shall be determined by adding the current month's fuel usage to that of the previous eleven months. The Permittee shall make these calculations monthly. [P 070-0074 Part IV.1] The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day. [40 CFR §60.48c(g)]

Table III.B: EMISSIONS UNIT EMU-005, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
2. Sulfur content	Limitations or Restrictions No person, except as provided in RCSA §22a-174-19(a)(2)(ii), (a)(3)(i), and (a)(3)(ii), shall use or burn fuel which contains sulfur in excess of a maximum of one percent (1.0%) by weight (dry basis). [RCSA §22a-174-19(a)(2)(i)] No owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur. [40 CFR §60.42c(d)] The maximum sulfur content of No. 2 fuel oil for the International Boiler Works Boiler is 0.3% (by weight, dry basis). [P 070-0074 Part I.A.3] i. Monitoring and Testing Requirements The Permittee shall monitor the sulfur content of the liquid fuels burned in the International Boiler Works Boiler, using a shipping receipt from the fuel supplier and a certification from the fuel supplier certifying the type of fuel in the shipment and the weight percent of sulfur in the fuel. [P 070-0074 Part IV.3] For distillate oil-fired affected facilities with heat input capacities between 2.9 and 29 MW (10 and 100 million BTU/hr), compliance with the emission limits or fuel oil sulfur limits under this section may be based on a certification from the fuel supplier, as described under §60.48c(f)(1). [40 CFR §60.42c(h)(1)] The performance test shall consist of the certification from the fuel supplier. [40 CFR §60.44c(h)] ii. Record Keeping Requirements The Permittee shall make and keep records of the sulfur content of the liquid fuels burned in the International Boiler Works Boiler. Records for a shipping receipt and/or certification shall include the name of the oil supplier, the sulfur content of the oil and the method used to determine the sulfur content of the oil. [P 070-0074 Part IV.3] Fuel supplier certification shall include the following information for distillate oil: (i) The name of the oil supplier: and (ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c. [40 CFR §60.48c(f)(1)] iii. Reporting Requirements The owner or operator of each affected facility subject to the SO_2 emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall submit quarterly reports to the Administrator. Each subsequent quarterly report shall be postmarked by the 30th day following the end of the reporting period. [40 CFR §60.48c(d)]

Table III.B: EMISSIONS UNIT EMU-005, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
3. Allowable Emission Limits	Limitations or Restrictions No person shall cause or permit the emission from fuel burning equipment of particulate matter in excess of the limitations listed in table 18-D-1. For permitted sources that burn all fuels, the limit is 0.10 pounds of particulate matter per million BTU of heat input. [RCSA §22a-174-18(d)(1)] The Permittee shall not exceed the following emission limits for the International Boiler Works Boiler. [P 070-0074 Part V]

Criteria	No. 2 Oil		Natural Gas		Total
Pollutants	#/hr	#/MM BTU	#/hr	#/MM BTU	TPY[1]
TSP	1.44	0.015	0.57	0.008	4.18
PM_{10}	0.78	0.008	0.57	0.008	2.50
SOx	31.00	0.314	0.05	0.001	89.92
NOx	20.01	0.203	10.50	0.140	58.06
VOC	0.37	0.004	0.41	0.006	1.81
CO	3.60	0.036	6.30	0.084	27.59
Pb	8.89e-4	9.00e-6	3.75e-5	5.00e-7	2.58e-3

i. Monitoring and Testing Requirements

The Permittee shall demonstrate compliance with the above emission limits for the International Boiler Works Boiler using emission factors from the following sources: [P 070-0074 Part V]

a. Compilation of Air Pollutant Emission Factors, AP-42, Fifth edition, Section 1.4 External Combustion Sources (natural gas combustion, Tables 1.4-1 & 1.4-2; Section 1.3 External Combustion Sources (fuel oil combustion), Tables 1.3-2 & 1.3-4, 1998.
b. NOx: Most recent stack test data.

ii. Record Keeping Requirements

The Permittee shall make and keep records of the emission calculations for the International Boiler Works Boiler. [RCSA §22a-174-4(c)(1)]

Table III.B: EMISSIONS UNIT EMU-005, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
4. Hazardous Air Pollutants	Limitations or Restrictions Emissions of these pollutants shall comply with RCSA 22a-174-29 concerning Hazardous Air Pollutants and in no case shall the Allowable Stack Concentration (ASC) exceed the Maximum Allowable Stack Concentration (MASC) value for pollutants listed below. [P 070-0074 Part V] Non-Criteria Pollutant Summary Non-Criteria Pollutants — MASC ($\mu g/m^3$) H_2SO_4 — 50921.72 Arsenic (As) — 127.30 Beryllium (Be) — 25.46 Cadmium (Cd) — 1018.43 Chromium (Cr) — 6365.22 Copper (Cu) — 5092.17 Lead (Pb) — 7638.26 Nickel (Ni) — 12730.43 Formaldehyde — 30553.03 i. Monitoring and Testing Requirements The Permittee shall calculate the actual stack concentration (ASC) and the maximum allowable stack concentration (MASC) of the hazardous air pollutants (HAPs) listed above using the formula in RCSA 22a-174-29. The Permittee shall demonstrate, by comparing the results from such calculations, that the ASC of each HAP does not exceed the appropriate MASC. [RCSA 22a-174-29 and P 070-0074 Part V] ii. Record Keeping Requirements The Permittee shall make and keep records of the ASC and MASC for the above pollutants. [P 070-0074 Part IV.4.]

Table III.B: EMISSIONS UNIT EMU-005, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
5. NOx	Limitations or Restrictions The owner or operator of a stationary source that is capable of interchangeably firing two or more fuels shall not cause or allow emissions of NOx from such source in excess of the emission limitation in Table 22-1 for the particular equipment and fuel used. [RCSA §22a-174-22(f)(2)(B)] The emission limitation for an "other boiler" that is both gas-fired and other oil-fired is 0.2 pounds per MMBTU. [[RCSA §22a-174-22(e) Table 22-1] The International Boiler Works (IBW) Boiler shall be equipped with low NOx burner technology. [P 070-0074 Part II.] i. Monitoring and Testing Requirements The Permittee shall conduct an emission test at least once every five years for the IBW Boiler to demonstrate compliance with RCSA §22a-174-22. [RCSA §22a-174-22(k)(1)] The Permittee shall demonstrate compliance with the emission limitations of this section using sampling and analytical procedures approved under 40 CFR Part 60, Appendix A, or under procedures in RCSA §22a-174-5(d). [RCSA §22a-174-22(k)(2)] ii. Record Keeping Requirements The Permittee shall make and keep the records for the International Boiler Works Boiler as described below. a. Monthly and annual records (e.g. fuel use, continuous emissions monitoring, operating hours) to determine whether NOx emissions from such premises in any calendar year are in excess of twenty-five (25) tons for a premises located in a severe nonattainment area for ozone or fifty (50) tons for a premises located in a serious nonattainment area for ozone; [RCSA §22a-174-22(l)(1)(C)] b. Records of all tune-ups, repairs, replacement of parts and other maintenance; [RCSA §22a-174-22(l)(1)(D)] c. Copies of all documents submitted to the Commissioner pursuant to this section; [RCSA §22a-174-22(l)(1)(E)] d. Procedures for calculating NOx emission rates in RCSA §22a-174-22(l)(1)(C); [RCSA §22a-174-22(l)(1)(G)] e. Records of the dates, times and places of all emission testing required by this section, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA §22a-174-22(l)(1)(H)] Any owner or operator subject to the provisions of this part shall maintain records of any startup, shutdown, or malfunction in the operation of an affected facility and any malfunction of the air pollution control equipment. [40 CFR §60.7(b)] iii. Reporting Requirements Within thirty (30) day of completion of emission tests conducted under the requirements of subdivision (k)(1) of this section, the owner or operator of such source shall submit a written report of the results of such testing to the Commissioner. [RCSA §22a-174-22(l)(2)] The Permittee of any source subject to RCSA §22a-174-22 shall submit a report on NOx emissions from such source, on a form provided by the Commissioner, on or before April 15 of each year. [RCSA §22a-174-22(l)(6)]

Section III: Applicable Requirements and Compliance Demonstration

C. EMISSIONS UNIT EMU-006

Table III.C: EMISSIONS UNIT EMU-006	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
1. Particulate Matter	Limitations or Restrictions No person shall cause or permit the emission from fuel burning equipment of particulate matter in excess of the limitations listed in table 18-D-1. For all other sources that burn all fuels except residual oil, the limit is 0.20 pounds of particulate matter per million BTU of heat input. [RCSA §22a-174-18(d)(1)] i. Monitoring and Testing Requirements The Permittee shall demonstrate compliance with the above emission limit for the Kewanee Boiler by calculating particulate emissions using emission factors from the Compilation of Air Pollutant Emission Factors, AP-42, Fifth edition, Section 1.3 External Combustion Sources (fuel oil combustion), Tables 1.3-2 & 1.3-4, 1998. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the particulate emission calculations for the Kewanee Boiler. [RCSA §22a-174-33(j)(1)(K)(ii)]

Table III.C: EMISSIONS UNIT EMU-006, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
2. Sulfur content	Limitations or Restrictions No person, except as provided in RCSA §22a-174-19(a)(2)(ii), (a)(3)(i), and (a)(3)(ii), shall use or burn fuel which contains sulfur in excess of a maximum of one percent (1.0%) by weight (dry basis). [RCSA §22a-174-19(a)(2)(i)] Note that Section V.:of this permit, State Enforceable Terms and Conditions, further limits the sulfur content of #2 heating oil to three-tenths of one percent sulfur by weight. [CGS §16a-21a] i. Monitoring and Testing Requirements The Permittee shall monitor the sulfur content of the liquid fuels burned in the Kewanee Boiler, using either a fuel certification for a delivery of fuel from a bulk petroleum provider or a copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the sulfur content of the liquid fuels burned in the Kewanee Boiler. Records for a fuel certification shall include the following information: the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. Records for a contract shall include the following information: the name of the fuel supplier, the type of fuel delivered, and the percentage of sulfur in such fuel, by weight, dry basis. [RCSA §22a-174-4(c)(1)]

Table III.C: EMISSIONS UNIT EMU-006, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
3. NOx	Limitations or Restrictions The owner or operator of a stationary source subject to RCSA §22a-174-22 may, in accordance with subsection (d)(1)(A) of this section, comply with the requirements of this section by meeting applicable emission limitations specified in Table 22-1 of this section. [RCSA §22a-174-22(e)(1)] The emission limitation for an "other boiler" that is other oil-fired is 0.2 pounds per MMBTU. [[RCSA §22a-174-22(e) Table 22-1] i. Monitoring and Testing Requirements The Permittee shall conduct an emission test at least once every five years for the Kewanee Boiler to demonstrate compliance with RCSA §22a-174-22. [RCSA §22a-174-22(k)(1)] The Permittee shall demonstrate compliance with the emission limitations of this section using sampling and analytical procedures approved under 40 CFR Part 60, Appendix A, or under procedures in RCSA §22a-174-5(d). [RCSA §22a-174-22(k)(2)] ii. Record Keeping Requirements The Permittee shall make and keep the records for the Kewanee Boiler as described below. a. Monthly and annual records (e.g. fuel use, continuous emissions monitoring, operating hours) to determine whether NOx emissions from such premises in any calendar year are in excess of twenty-five (25) tons for a premises located in a severe nonattainment area for ozone or fifty (50) tons for a premises located in a serious nonattainment area for ozone; [RCSA §22a-174-22(l)(1)(C)] b. Records of all tune-ups, repairs, replacement of parts and other maintenance; [RCSA §22a-174-22(l)(1)(D)] c. Copies of all documents submitted to the Commissioner pursuant to this section; [RCSA §22a-174-22(l)(1)(E)] d. Procedures for calculating NOx emission rates in RCSA §22a-174-22(l)(1)(C); [RCSA §22a-174-22(l)(1)(G)] e. Records of the dates, times and places of all emission testing required by this section, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA §22a-174-22(l)(1)(H)] iii. Reporting Requirements Within thirty (30) day of completion of emission tests conducted under the requirements of subdivision (k)(1) of this section, the owner or operator of such source shall submit a written report of the results of such testing to the Commissioner. [RCSA §22a-174-22(l)(2)] On or before April 15 of each year, the owner or operator of a stationary source subject to this section shall submit a report on NOx emissions from such source, on a form provided by the Commissioner. [RCSA §22a-174-22(l)(6)]

Section III: Applicable Requirements and Compliance Demonstration

D. EMISSIONS UNIT EMU-007

Table III.D: EMISSIONS UNIT EMU-007

Pollutants or Process Parameters	Compliance Demonstration Requirements
1. Fuel Usage	Limitations or Restrictions The Solar Taurus 60 Turbine and duct burner is limited to maximum fuel consumption over any consecutive 12 month period of 691,432 MMBTU /yr. [P 070-0096 Part I.C] The following equation establishes the corresponding maximum fuel consumption while allowing flexibility of burning natural gas and No. 2 oil: $X * (0.139 \text{ MMBTU/gal}) + Y * (0.001 \text{ MMBTU/ft}^3) = 691{,}432 \text{ MMBTU}$ Where X = gallons of No. 2 oil $\leq$ 1.45 million gallons $Y = \text{ft}^3$ of natural gas $\leq$ 691.432 million ft^3 Note: The U.S. Naval Submarine Base New London shall burn exclusively natural gas during the ozone season from May 1 through September 30, except during a curtailment period, facility maintenance, or times of war. A curtailment period is a period in which the gas supplier ceases to supply natural gas due to a limited supply or a mechanical breakdown in the natural gas supply system. [P 070-0096 Part I.C] i. Monitoring and Testing Requirements The Permittee shall monitor the fuel usage in the Solar Taurus 60 Turbine and duct burner, using either fuel purchase receipts or a fuel meter. [RCSA §22a-174-33(j)(1)(K)(ii)] When more than one fuel supply tank is to service this source or when multiple sources are supplied by one fuel tank, the Permittee shall use a fuel metering device to continuously monitor fuel feed to this permitted source. [P 070-0096 Part IV.B.] ii. Record Keeping Requirements The Permittee shall make and keep records of the monthly and consecutive twelve month No. 2 fuel oil and natural gas usage in the Solar Taurus 60 Turbine and duct burner. The consecutive twelve month fuel usage shall be determined by adding the current month's fuel usage to that of the previous eleven months. The Permittee shall make these calculations monthly. [P 070-0096 Part IV.A.] The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day. [40 CFR §60.48c(g)]

Table III.D: EMISSIONS UNIT EMU-007, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
2. Sulfur content and Nitrogen content of the liquid fuel	Limitations or Restrictions No person, except as provided in RCSA §22a-174-19(a)(2)(ii), (a)(3)(i), and (a)(3)(ii), shall use or burn fuel which contains sulfur in excess of a maximum of one percent (1.0%) by weight (dry basis). [RCSA §22a-174-19(a)(2)(i)] The #2 oil Sulfur content (% by weight, dry basis) for the Solar Taurus 60 Turbine and duct burner is limited to 0.3%. [P 070-0096 Part I.B.] No owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur. [40 CFR §60.42c(d)] Stationary gas turbines with a manufacturer's rated base load at ISO conditions of 30 megawatts or less except as provided in §60.332(b) shall comply with paragraph (a)(2) of this section. [40 CFR §60.332(d)] No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of: [40 CFR §60.332(a)(2)] $STD = 0.0150 \frac{(14.4)}{Y} + F$ Where: STD= allowable NOx emissions (percent by volume at 15 percent oxygen and on a dry basis). Y = manufacturer's rated heat rate at manufacturer's rated peak load (kilojoules per watt hour) or actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour. F = NOx emission allowance for fuel-bound nitrogen as defined in paragraph (a)(3) of this section. Every owner or operator subject to the provision of this subpart shall comply with one or the other of the following conditions: [40 CFR §60.333] a. No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent oxygen and on a dry basis. b. No owner or operator subject to the provisions of this subpart shall burn in any stationary gas turbine any fuel which contains sulfur in excess of 0.8 percent by weight. i. Monitoring and Testing Requirements The Permittee shall monitor the sulfur content and the nitrogen content of the #2 oil burned in the Solar Taurus 60 Turbine and duct burner in accordance with 40 CFR Part 60 Subpart GG §60.334(b), using the methods specified in 40 CFR Part 60 Subpart GG §60.335(a) and (d). The analysis may be performed as specified in §60.335(e). [40 CFR §60.334(b), §60.335(a), §60.335(d), §60.335(e)]

Table III.D: EMISSIONS UNIT EMU-007, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
2. Sulfur content and Nitrogen content of the liquid fuel, continued	i. Monitoring and Testing Requirements, continued For distillate oil-fired affected facilities with heat input capacities between 2.9 and 29 MW (10 and 100 million BTU/hr), compliance with the emission limits or fuel oil sulfur limits under this section may be based on a certification from the fuel supplier, as described under §60.48c(f)(1). [40 CFR §60.42c(h)(1)] The performance test shall consist of the certification from the fuel supplier. [40 CFR §60.44c(h)] ii. Record Keeping Requirements The Permittee shall make and keep records of the sulfur content and the nitrogen content of the #2 oil burned in the Solar Taurus 60 Turbine and duct burner. [RCSA §22a-174-33(j)(1)(K)(ii)] Each oil fuel shipment for this equipment shall include a shipping receipt from the fuel supplier and a certification from the fuel supplier certifying the type of fuel in the shipment and the weight percent of sulfur and nitrogen in the fuel. The shipping receipt and/or certification shall include the name of the oil supplier, the sulfur and nitrogen content of the oil and the method used to determine the sulfur and nitrogen content of the oil. The Permittee shall maintain records of each shipping receipt and certification. [P 070-0096 Part IV.C.] Fuel supplier certification shall include the following information for distillate oil: (i) The name of the oil supplier: and (ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c. [40 CFR §60.48c(f)(1)] iii. Reporting Requirements The owner or operator shall submit an excess emissions report for: (1) Nitrogen oxides. Any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with §60.332 by the performance test required in §60.8 or any period during which the fuel-bound nitrogen of the fuel is greater than the maximum nitrogen content allowed by the fuel-bound nitrogen allowance used during the performance test required by §60.8. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, gas turbine load, and nitrogen content of the fuel during the period of excess emissions, and the graphs or figures developed under §60.335(a). [40 CFR §60.334(c)(1)] (2) Sulfur dioxide. Any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent. [40 CFR §60.334(c)(2)] The owner or operator of each affected facility subject to the SO_2 emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall submit quarterly reports to the Administrator. Each subsequent quarterly report shall be postmarked by the 30th day following the end of the reporting period. [40 CFR §60.48c(d)]

Table III.D: EMISSIONS UNIT EMU-007, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
3. Allowable Emission Limits	Limitations or Restrictions No person shall cause or permit the emission from fuel burning equipment of particulate matter in excess of the limitations listed in table 18-D-1. For permitted sources that burn all fuels, the limit is 0.10 pounds of particulate matter per million BTU of heat input. [RCSA §22a-174-18(d)(1)] The Permittee shall not exceed the following emission limits for the Solar Taurus 60 Turbine and duct burner, except during periods of start-up, shutdown, and routine maintenance. [P 070-0096 Part V] ***Turbine:*** Criteria Pollutants / Natural Gas lb/MM BTU / No. 2 Oil lb/MM BTU TSP: 0.014 / 0.078 PM-10: 0.014 / 0.078 SOx: 0.001 / 0.304 NOx: 0.090 (25 ppm)* / 0.163 (42 ppm)* VOC: 0.030 / 0.008 CO: 0.037 / 0.090 * (corrected to 15% O_2) ***Turbine & Duct Burner*** *(Duct burner cannot run independently):* Criteria Pollutants / Natural Gas lb/MM BTU / No. 2 Oil lb/MM BTU TSP: 0.010 / 0.060 PM-10: 0.010 / 0.060 SOx: 0.001 / 0.312 NOx: 0.100 / 0.150 VOC: 0.035 / 0.038 CO: 0.168 / 0.290

Table III.D: EMISSIONS UNIT EMU-007, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
3. Allowable Emission Limits, continued	Limitations or Restrictions, continued ***Maximum Total Annual Emissions Allowed:*** Criteria Pollutants / lb/hr / TPY TSP 5.90 17.54 PM-10 5.90 17.54 SOx 30.70 31.33 NOx 14.76 38.47 VOC 3.74 12.09 CO 28.54 57.20 i. Monitoring and Testing Requirements The Permittee shall demonstrate compliance with the above emission limits for the Solar Taurus 60 Turbine and duct burner using emission factors from the following sources: [P 070-0096 Part V] a. Manufacturer's data. b. Stack test results. Most recent stack test data for NOx. ii. Record Keeping Requirements The Permittee shall make and keep records of the emission calculations for the Solar Taurus 60 Turbine and duct burner. [RCSA §22a-174-4(c)(1)]

Table III.D: EMISSIONS UNIT EMU-007, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
4. Hazardous Air Pollutants	Limitations or Restrictions Emissions of these pollutants shall comply with RCSA 22a-174-29 concerning Hazardous Air Pollutants and in no case shall the Allowable Stack Concentration (ASC) exceed the Maximum Allowable Stack Concentration (MASC) value for pollutants listed below. [P 070-0096 Part V] Non-Criteria Pollutant Summary Non-Criteria Pollutants — MASC ** (ug/m^3) Sulfuric Acid 285,000 Nickel 42,700 Formaldehyde 171,000 Lead 4,270 Vanadium 14,200 Sodium 569,000 ** maximum allowable stack concentration i. Monitoring and Testing Requirements The Permittee shall calculate the actual stack concentration (ASC) and the maximum allowable stack concentration (MASC) of the hazardous air pollutants (HAPs) listed above using the formula in RCSA 22a-174-29. The Permittee shall demonstrate, by comparing the results from such calculations, that the ASC of each HAP does not exceed the appropriate MASC. [RCSA 22a-174-29] ii. Record Keeping Requirements The Permittee shall make and keep records of the ASC and MASC for the above pollutants. [RCSA §22a-174-4(c)(1)]

Table III.D: EMISSIONS UNIT EMU-007, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
5. Water to fuel ratio	Limitations or Restrictions The water to fuel ratio is limited to 0.80 lb:1.60 lb. The averaging time is a one-hour block average. [P 070-0096 Part III.] i. Monitoring and Testing Requirements The owner or operator of any stationary gas turbine subject to the provisions of this subpart and using water injection to control NOx emissions shall install and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine. This system shall be accurate to within ±5.0 percent and shall be approved by the Administrator. [40 CFR §60.334(a)] ii. Record Keeping Requirements The Permittee shall record the ratio of water to fuel being fired in the turbine. [40 CFR §60.334(a)] iii. Reporting Requirements The owner or operator shall submit an excess emissions report for any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with §60.332 by the performance test required in §60.8 or any period during which the fuel-bound nitrogen of the fuel is greater than the maximum nitrogen content allowed by the fuel-bound nitrogen allowance used during the performance test required by §60.8. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, gas turbine load, and nitrogen content of the fuel during the period of excess emissions, and the graphs or figures developed under §60.335(a). [40 CFR §60.334(c)(1)]

Table III.D: EMISSIONS UNIT EMU-007, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
6. NOx	Limitations or Restrictions The owner or operator of a stationary source subject to RCSA §22a-174-22 may, in accordance with subsection (d)(1)(A) of this section, comply with the requirements of this section by meeting applicable emission limitations specified in Table 22-1 of this section. Emission limitations in Table 22-1 for turbine engines that are quantified in units of ppmvd shall be corrected to fifteen percent (15%) oxygen. [RCSA §22a-174-22(e)(1)] For a turbine engine with MRC ≥ 100 MMBTU the NOx limitation is 55 ppmvd when firing natural gas and 75 ppmvd when firing other oil. [RCSA §22a-174-22(e) Table 22-1] i. Monitoring and Testing Requirements The Permittee shall conduct an emission test at least once every five years for the Solar Taurus 60 Turbine and duct burner to demonstrate compliance with RCSA §22a-174-22. [RCSA §22a-174-22(k)(1)] The Permittee shall demonstrate compliance with the emission limitations of this section using sampling and analytical procedures approved under 40 CFR Part 60, Appendix A, or under procedures in RCSA §22a-174-5(d). [RCSA §22a-174-22(k)(2)] ii. Record Keeping Requirements The Permittee shall make and keep the records for the Solar Taurus 60 Turbine and duct burner as described below. a. Monthly and annual records (e.g. fuel use, continuous emissions monitoring, operating hours) to determine whether NOx emissions from such premises in any calendar year are in excess of twenty-five (25) tons for a premises located in a severe nonattainment area for ozone or fifty (50) tons for a premises located in a serious nonattainment area for ozone; [RCSA §22a-174-22(l)(1)(C)] b. Records of all tune-ups, repairs, replacement of parts and other maintenance; [RCSA §22a-174-22(l)(1)(D)] c. Copies of all documents submitted to the Commissioner pursuant to this section; [RCSA §22a-174-22(l)(1)(E)] d. Procedures for calculating NOx emission rates in RCSA §22a-174-22(l)(1)(C); [RCSA §22a-174-22(l)(1)(G)] e. Records of the dates, times and places of all emission testing required by this section, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA §22a-174-22(l)(1)(H)] iii. Reporting Requirements Within thirty (30) day of completion of emission tests conducted under the requirements of subdivision (k)(1) of this section, the owner or operator of such source shall submit a written report of the results of such testing to the Commissioner. [RCSA §22a-174-22(l)(2)] On or before April 15 of each year, the owner or operator of a stationary source subject to this section shall submit a report on NOx emissions from such source, on a form provided by the Commissioner. [RCSA §22a-174-22(l)(6)]

Section III: Applicable Requirements and Compliance Demonstration

E. EMISSIONS UNIT EMU-008

Table III.E: EMISSIONS UNIT EMU-008	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
1. Fuel Usage	Limitations or Restrictions The Waukesha Generator is limited to a maximum fuel consumption of 357,000 gallons of #2 fuel oil per year. [P 070-0061] i. Monitoring and Testing Requirements The Permittee shall monitor the fuel usage in the Waukesha Generator, using either the annual hours of operation and the maximum hourly fuel rating for the Waukesha Generator or a fuel meter. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the monthly and consecutive twelve month # 2 fuel oil usage in the Waukesha Generator. The consecutive twelve month fuel usage shall be determined by adding the current month's fuel usage to that of the previous eleven months. The Permittee shall make these calculations monthly. [RCSA §22a-174-4(c)(1)]

Table III.E: EMISSIONS UNIT EMU-008, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
2. Hours of Operation	i. Monitoring and Testing Requirements The Permittee shall monitor the hours of operation of the Waukesha Generator, using an hour meter. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the monthly and consecutive twelve month hours of operation of the Waukesha Generator. The consecutive twelve month hours of operation shall be determined by adding the current month's hours of operation to that of the previous eleven months. The Permittee shall make these calculations monthly. [RCSA §22a-174-4(c)(1)]

Table III.E: EMISSIONS UNIT EMU-008, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
3. Sulfur content	Limitations or Restrictions No person, except as provided in RCSA §22a-174-19(a)(2)(ii), (a)(3)(i), and (a)(3)(ii), shall use or burn fuel which contains sulfur in excess of a maximum of one percent (1.0%) by weight (dry basis). [RCSA §22a-174-19(a)(2)(i)] The maximum sulfur content of No. 2 oil for the Waukesha Generator is 0.5% (by weight, dry basis). [P 070-0061] Note that Section V.:of this permit, State Enforceable Terms and Conditions, further limits the sulfur content of #2 heating oil to three-tenths of one percent sulfur by weight. [CGS §16a-21a] i. Monitoring and Testing Requirements The Permittee shall monitor the sulfur content of the No. 2 oil burned in the Waukesha Generator, using either a fuel certification for a delivery of fuel from a bulk petroleum provider or a copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the sulfur content of the No. 2 oil burned in the Waukesha Generator. Records for a fuel certification shall include the following information: the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. Records for a contract shall include the following information: the name of the fuel supplier, the type of fuel delivered, and the percentage of sulfur in such fuel, by weight, dry basis. [RCSA §22a-174-4(c)(1)]

Table III.E: EMISSIONS UNIT EMU-008, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
4. Allowable Emission Limits	Limitations or Restrictions No person shall cause or permit the emission from fuel burning equipment of particulate matter in excess of the limitations listed in table 18-D-1. For permitted sources that burn all fuels, the limit is 0.10 pounds of particulate matter per million BTU of heat input. [RCSA §22a-174-18(d)(1)] The Permittee shall not exceed the following emission limits for the Waukesha Generator: [P 070-0061] Criteria Pollutants — TPY TSP 6.5 SOx 12.0 NOx 14.9 i. Monitoring and Testing Requirements The Permittee shall demonstrate compliance with the above emission limits for the Waukesha Generator using emission factors from the Compilation of Air Pollutant Emission Factors, AP-42, Fifth edition, Section 3.3 Gasoline and Diesel Industrial Engines, Tables 3.3-1 & 3.3-2, 10/96. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the emission calculations for the Waukesha Generator. [RCSA §22a-174-4(c)(1)]

Table III.E: EMISSIONS UNIT EMU-008, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
5. NOx	Limitations or Restrictions The owner or operator of a stationary source subject to RCSA §22a-174-22 may, in accordance with subsection (d)(1)(A) of this section, comply with the requirements of this section by meeting applicable emission limitations specified in Table 22-1 of this section. [RCSA §22a-174-22(e)(1)] The emission limitation for a reciprocating engine that is other oil-fired is 8 gm/bk hp-hr. [[RCSA §22a-174-22(e) Table 22-1] i. Monitoring and Testing Requirements The Permittee shall conduct an emission test at least once every five years for the Waukesha Generator to demonstrate compliance with RCSA §22a-174-22. [RCSA §22a-174-22(k)(1)] The Permittee shall demonstrate compliance with the emission limitations of this section using sampling and analytical procedures approved under 40 CFR Part 60, Appendix A, or under procedures in RCSA §22a-174-5(d). [RCSA §22a-174-22(k)(2)] ii. Record Keeping Requirements The Permittee shall make and keep the records for the Waukesha Generator as described below. a. Monthly and annual records (e.g. fuel use, continuous emissions monitoring, operating hours) to determine whether NOx emissions from such premises in any calendar year are in excess of twenty-five (25) tons for a premises located in a severe nonattainment area for ozone or fifty (50) tons for a premises located in a serious nonattainment area for ozone; [RCSA §22a-174-22(l)(1)(C)] b. Records of all tune-ups, repairs, replacement of parts and other maintenance; [RCSA §22a-174-22(l)(1)(D)] c. Copies of all documents submitted to the Commissioner pursuant to this section; [RCSA §22a-174-22(l)(1)(E)] d. Procedures for calculating NOx emission rates in RCSA §22a-174-22(l)(1)(C); [RCSA §22a-174-22(l)(1)(G)] e. Records of the dates, times and places of all emission testing required by this section, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA §22a-174-22(l)(1)(H)] iii. Reporting Requirements Within thirty (30) day of completion of emission tests conducted under the requirements of subdivision (k)(1) of this section, the owner or operator of such source shall submit a written report of the results of such testing to the Commissioner. [RCSA §22a-174-22(l)(2)] On or before April 15 of each year, the owner or operator of a stationary source subject to this section shall submit a report on NOx emissions from such source, on a form provided by the Commissioner. [RCSA §22a-174-22(l)(6)]

Section III: Applicable Requirements and Compliance Demonstration

F. EMISSIONS UNIT EMU-009

Table III.F: EMISSIONS UNIT EMU-009	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
1. Fuel Usage	Limitations or Restrictions Respondent shall not burn more than 20,000 gallons fuel per calendar year in the Fairbanks generator. Respondent shall use only No. 2 fuel oil for the Fairbanks generator. [Consent Order No. 7020, Paragraph B.1.a.ii.] i. Monitoring and Testing Requirements The Permittee shall monitor the fuel usage in the Fairbanks generator, using either fuel purchase receipts or a fuel meter. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements Respondent shall prepare and maintain records at the facility of the amount of fuel consumed per calendar year in the Fairbanks generator. [Consent Order No. 7020, Paragraph B.1.b. iii. Reporting Requirements In the event that the Respondent becomes aware that it did not or may not comply, or did not or may not comply on time, with any requirement of this Consent Order or of any document required hereunder, the Respondent shall immediately notify the Commissioner and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. In so notifying the Commissioner, the Respondent shall state in writing the reasons for the noncompliance or delay and propose, for the review and written approval of the Commissioner, dates by which compliance will be achieved, and the Respondent shall comply with any dates which may be approved in writing by the Commissioner. Notification by the Respondent shall not excuse noncompliance or delay, and the Commissioner's approval of any compliance dates proposed shall not excuse noncompliance or delay unless specifically so stated by the Commissioner in writing. [Consent Order No. 7020, Paragraph B.6.]

Table III.F: EMISSIONS UNIT EMU-009, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
2. Hours of Operation	Limitations or Restrictions Respondent shall not operate the Fairbanks generator more than 300 hours per calendar year. [Consent Order No. 7020, Paragraph B.1.a.i.] i. Monitoring and Testing Requirements The Permittee shall monitor the hours of operation of the Fairbanks generator, using an hour meter. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements Respondent shall prepare and maintain records at the facility of the dates and hours of operation of the Fairbanks generator. [Consent Order No. 7020, Paragraph B.1.b.] iii. Reporting Requirements In the event that the Respondent becomes aware that it did not or may not comply, or did not or may not comply on time, with any requirement of this Consent Order or of any document required hereunder, the Respondent shall immediately notify the Commissioner and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. In so notifying the Commissioner, the Respondent shall state in writing the reasons for the noncompliance or delay and propose, for the review and written approval of the Commissioner, dates by which compliance will be achieved, and the Respondent shall comply with any dates which may be approved in writing by the Commissioner. Notification by the Respondent shall not excuse noncompliance or delay, and the Commissioner's approval of any compliance dates proposed shall not excuse noncompliance or delay unless specifically so stated by the Commissioner in writing. [Consent Order No. 7020, Paragraph B.6.]

Table III.F: EMISSIONS UNIT EMU-009, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
3. Particulate Matter	Limitations or Restrictions No person shall cause or permit the emission from fuel burning equipment of particulate matter in excess of the limitations listed in table 18-D-1. For all other sources that burn all fuels except residual oil, the limit is 0.20 pounds of particulate matter per million BTU of heat input. [RCSA §22a-174-18(d)(1)] i. Monitoring and Testing Requirements The Permittee shall demonstrate compliance with the above emission limit for the Fairbanks generator by calculating particulate emissions using emission factors from the Compilation of Air Pollutant Emission Factors, AP-42, Fifth edition, Section 3.3 Gasoline and Diesel Industrial Engines, Tables 3.3-1 & 3.3-2, 10/96. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the particulate emission calculations for the Fairbanks generator. [RCSA §22a-174-33(j)(1)(K)(ii)]

Table III.F: EMISSIONS UNIT EMU-009, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
4. Sulfur content	Limitations or Restrictions No person, except as provided in RCSA §22a-174-19(a)(2)(ii), (a)(3)(i), and (a)(3)(ii), shall use or burn fuel which contains sulfur in excess of a maximum of one percent (1.0%) by weight (dry basis). [RCSA §22a-174-19(a)(2)(i)] Note that Section V.:of this permit, State Enforceable Terms and Conditions, further limits the sulfur content of #2 heating oil to three-tenths of one percent sulfur by weight. [CGS §16a-21a] i. Monitoring and Testing Requirements The Permittee shall monitor the sulfur content of the liquid fuels burned in the Fairbanks generator, using either a fuel certification for a delivery of fuel from a bulk petroleum provider or a copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the sulfur content of the liquid fuels burned in the Fairbanks generator. Records for a fuel certification shall include the following information: the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. Records for a contract shall include the following information: the name of the fuel supplier, the type of fuel delivered, and the percentage of sulfur in such fuel, by weight, dry basis. [RCSA §22a-174-4(c)(1)]

Section III: Applicable Requirements and Compliance Demonstration

Table III.F: EMISSIONS UNIT EMU-009, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
5. NOx	Limitations or Restrictions The owner or operator of a stationary source subject to RCSA §22a-174-22 may, in accordance with subsection (d)(1)(A) of this section, comply with the requirements of this section by meeting applicable emission limitations specified in Table 22-1 of this section. [RCSA §22a-174-22(e)(1)] The emission limitation for a reciprocating engine that is other oil-fired is 8 gm/bk hp-hr. [[RCSA §22a-174-22(e) Table 22-1] i. Monitoring and Testing Requirements The Permittee shall conduct an emission test at least once every five years for the Fairbanks generator to demonstrate compliance with RCSA §22a-174-22. [RCSA §22a-174-22(k)(1)] The Permittee shall demonstrate compliance with the emission limitations of this section using sampling and analytical procedures approved under 40 CFR Part 60, Appendix A, or under procedures in RCSA §22a-174-5(d). [RCSA §22a-174-22(k)(2)] ii. Record Keeping Requirements The Permittee shall make and keep the records for the Fairbanks generator as described below. a. Monthly and annual records (e.g. fuel use, continuous emissions monitoring, operating hours) to determine whether NOx emissions from such premises in any calendar year are in excess of twenty-five (25) tons for a premises located in a severe nonattainment area for ozone or fifty (50) tons for a premises located in a serious nonattainment area for ozone; [RCSA §22a-174-22(l)(1)(C)] b. Records of all tune-ups, repairs, replacement of parts and other maintenance; [RCSA §22a-174-22(l)(1)(D)] c. Copies of all documents submitted to the Commissioner pursuant to this section; [RCSA §22a-174-22(l)(1)(E)] d. Procedures for calculating NOx emission rates in RCSA §22a-174-22(l)(1)(C); [RCSA §22a-174-22(l)(1)(G)] e. Records of the dates, times and places of all emission testing required by this section, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [RCSA §22a-174-22(l)(1)(H)] iii. Reporting Requirements Within thirty (30) day of completion of emission tests conducted under the requirements of subdivision (k)(1) of this section, the owner or operator of such source shall submit a written report of the results of such testing to the Commissioner. [RCSA §22a-174-22(l)(2)] On or before April 15 of each year, the owner or operator of a stationary source subject to this section shall submit a report on NOx emissions from such source, on a form provided by the Commissioner. [RCSA §22a-174-22(l)(6)]

Table III.F: EMISSIONS UNIT EMU-009, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
6. Trading Agreement	Limitations or Restrictions The Permittee (SUBASENLON) shall comply with the provisions of Trading Agreement and Order No. 8112A. At the facility, SUBASENLON operates the following fuel-burning equipment: one (1) diesel powered electric generator (diesel generator #519) which is used exclusively for training of personnel in operation and maintenance of such engines on board submarines, and boilers 1, 2, and 3 (boilers 1, 2 and 3) that are subject to Section 22a-174-22 of the Regulations of Connecticut State Agencies, pertaining to control of NOx emissions. [Trading Agreement and Order 8112A Paragraph A.3] Emissions testing resulted in NOx emissions rates for diesel generator 519, in grams per horsepower hour ("gm/HP-hr") and boilers 1, 2 and 3 in pounds per million British thermal units ("lbs/MMBtu") as follows: [Trading Agreement and Order 8112A Paragraph A.4]

Table 1

SUBASENLON -Emission Test Results, Allowable Emission Limits and FLERs in gm/HP-hr or lb/MMBtu

Unit	Fuel	Emission Test Rate #2oil/Nat.Gas	FLER	Allowable Emission Limits	Emission Test Date	Next Emission Test Due
Gen. #519	#2 diesel oil	19.88	24.63	8	11/19/02	11/19/07
Boiler 1	#2oil/Nat.Gas	0.145 / 0.086	0.143 / 0.126	0.20	6/20/02	6/20/07
Boiler 2	#2oil/Nat.Gas	0.158 / 0.096	0.144 / 0.099	0.20	6/19-20/02	6/19-20/07
Boiler 3	#2oil/Nat.Gas	0.134 / 0.090	0.134 / 0.076	0.20	12/11/01	12/11/06

SUBASENLON is in excess of the allowable limits in Section 22a-174-22(e) of the Regulations as shown in Table 1 of this Trading Agreement and Order when operating diesel generator 519. [Trading Agreement and Order 8112A Paragraph A.5]

Pursuant to Section 22a-174-22(j) of the Regulations SUBASENLON proposes to comply with Section 22a-174-22(e) of the Regulations, for diesel generator 519's emissions, through the use of approved DERCs until April 30, 2007 at the facility in accordance with this Trading Agreement and Order. [Trading Agreement and Order 8112A Paragraph A.7]

Emissions testing performed for boilers 1, 2 and 3 resulted in NOx emissions rates as shown in table 1. [Trading Agreement and Order 8112A Paragraph A.8]

Table III.F: EMISSIONS UNIT EMU-009, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
6. Trading Agreement, continued	Limitations or Restrictions, continued SUBASENLON is in excess of the generation FLERs, as shown in Table 1, when operating boiler 1, 2 and 3. [Trading Agreement and Order 8112A Paragraph A.9] The Commissioner, pursuant to Section 22a-174-22 of the Regulations, previously approved the NOx DERCs referenced in Table 2 of this Trading Agreement and Order. DERC creation serial numbers if assigned by the Department to these previously approved DERCs are provided in Table 2 of this Trading Agreement and Order. Unused DERCs are subject to the vintage restrictions of this Trading Agreement and Order. Dates after which the unused DERCs will no longer be eligible for use as a result of the vintage restrictions are provided in Table 2 of this Trading Agreement and Order in the expiration date column. [Trading Agreement and Order 8112A Paragraph A.12]

Table 2

SUBASENLON - DERCs Previously Purchased and Generated (to the extent not already used)

Year of Gen.	Ozone season NOx DERC serial numbers	Ozone Season DERCs	Non-ozone season NOx DERC serial numbers	Non-ozone season DERCs	Expiration Date
1996	Generated S/N Not assigned	14.2	GeneratedS/N Not assigned	17.1	12/31/04
1996	Generated S/N Not assigned	26	N/A	N/A	12/31/04
1997	Generated S/N Not assigned	19	N/A	N/A	12/31/04
1997	Generated S/N Not assigned	1.74	GeneratedS/N Not assigned	11.07	12/31/04
1998	CT98/8112(DC)NOxoz(1)	1	CT98/8112(DC)Noxnoz(1-4)	4	12/31/04
1999	N/A	N/A	CT99/8112(DC)Noxnoz(1-4)	4	12/31/04
2000	CT00/8112(DC)NOxoz(1)	1	CT00/8112(DC)Noxnoz(1-5)	5	12/31/05
2001	N/A	N/A	CT01/8112(DC)Noxnoz(1-2)	2	12/31/06
2002	CT02/8112(DC)NOxoz(1)	1	CT02/8112(DC)Noxnoz(1-2)	2	12/31/07

The Commissioner in accordance with the provisions of this Trading Agreement and Order, and pursuant to Sections 22a-174-22(d)(3), (e) and (j) of the Regulations hereby allows SUBASENLON to comply with Section 22a-174-22 of the Regulations through the use of DERC trading and the emissions limitations at the facility as provided herein. [Trading Agreement and Order 8112A Paragraph B]

Upon issuance of this Trading Agreement and Order, SUBASENLON shall: [Trading Agreement and Order 8112A Paragraph C.1]

a) No longer create new DERCs using boilers 1, 2and 3 at the facility; and
b) Submit to the Commissioner a certification that it has retired without use, 8 tons of DERCs to offset FLER exceedance in NOV No. 14895.

Table III.F: EMISSIONS UNIT EMU-009, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
6. Trading Agreement, continued	Limitations or Restrictions, continued Upon issuance of this Trading Agreement and Order at the facility, SUBASENLON shall comply with Section 22a-174-22 of the Regulations through emission reduction trading until the diesel generator 519 achieves permanent compliance with the emission standard in Section 22a-174-22(e) of the Regulations or by April 30, 2007, whichever is earlier, as follows: [Trading Agreement and Order 8112A Paragraph C.2] a) SUBASENLON shall use approved DERCs as required under this Trading Agreement and Order; b) SUBASENLON shall have in its possession sufficient approved DERCs to meet the applicable NOx emission limits as allowed under this Trading Agreement and Order; and c) SUBASENLON shall comply during operation of each peaking unit with the FLERs shown in Table 1 of this Trading Agreement and Order. i. Monitoring and Testing Requirements The Permittee shall monitor the number of DERCs in its possession, purchased and used (by serial number if assigned) each month. [RCSA §22a-174-33(j)(1)(K)(ii)] a) Until April 30, 2007 before the first day of each month SUBASENLON shall have in its possession sufficient approved DERCs for the upcoming ozone season, based on the following calculations (described also in Exhibit 1); [Trading Agreement and Order 8112A Paragraph C.3] Before the first day of each month SUBASENLON shall estimate DERCs required for such month for the diesel generator 519 as follows: (i) At all times (mass calculation): Estimate DERCs (tons) on a mass basis = [Number of ozone months x estimated gal/month x heat input in MMBtu/gal x (FLER grams/HP-hr - (Allowable limit in grams/HP-hr x 0.95[(1)])) x EFF.[(2)] x HP-hr/0.002544 MMBtu x lbs/453.6 grams] ÷ 2000 pounds/ton. Where: [(1)] Equivalent to a 5% design margin [(2)] Manufacturer's engine efficiency = 37% for diesel generator 519. (ii) During the ozone season only (peak day calculation): The estimated maximum excess NOx emissions (in lbs) on any of the days projected by the Commissioner to be "moderate to unhealthful", "unhealthful" or "very unhealthful" divided by 3 and then divided by 13 (with the result in tons): Estimate DERCs (in tons) = [(Estimate excess NOx in lbs x maximum estimated hours/24 hr ratio of operating hours) ÷ 3] ÷ [13 lbs/day/ton]

Table III.F: EMISSIONS UNIT EMU-009, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
6. Trading Agreement, continued	i. Monitoring and Testing Requirements, continued b) No later than October 30 of 2003, 2004, 2005, and 2006 calculate and permanently retire the DERCs used in the preceding ozone season as the greater of: (i) the actual total excess emissions for the ozone season in tons, as follows: Actual DERCs (tons) on a mass basis = [Number of ozone months x actual gal/month x heat input in MMBtu/gal x (FLER grams/HP-hr - (Allowable limit in grams/HP-hr x 0.95)) x EFF. x HP-hr/0.002544 MMBtu x lbs/453.6 grams] ÷ 2000 pounds/ton. OR (ii) the actual excess NOx emissions (in lbs) on any of the days projected by the Commissioner to be "moderate to unhealthful", "unhealthful", or "very unhealthful", divided by 3 and then divided by 13 (with the result in tons): DERCs (in tons) = [(Actual daily excess NOx in lbs on a mass basis x actual hours/24 hr ratio of operating hours) ÷ 3] ÷ 13 lbs/day/ton] As described in Exhibit 1 of this Trading Agreement and Order, to the extent that DERCs used to offset on peak day basis (method (ii)) exceed the total mass excess emissions (method (i)), remaining DERCs may be used in the non-ozone season in the same or subsequent years through April 30, 2007. ii. Record Keeping Requirements SUBASENLON shall make and keep records of: daily fuel use and fuel type, excess NOx emissions; the number of DERCs in its possession, created, purchased and used (by serial number if assigned) each month, as in accordance with the appropriate emission rates and limits of this Trading Agreement and Order; the number of DERCs used in the ozone season and non-ozone season (the remainder of the year), the daily ozone classification as forecasted by the Commissioner on the previous day; well as documentation attesting to the fact that approved DERCs used in the ozone season were created during the ozone season. Generator certification of this fact shall be sufficient. [Trading Agreement and Order 8112A Paragraph C.4] SUBASENLON shall retain records and supporting documentation as described in this Trading Agreement and Order for a minimum of five years, commencing on the date such records were created. SUBASENLON shall provide the records specified above to the Commissioner within thirty (30) days of receipt of a written request from the Commissioner. All records shall be maintained in accordance with Sections 22a-174-4 and 22a-174-22 of the Regulations. [Trading Agreement and Order 8112A Paragraph C.5]

Table III.F: EMISSIONS UNIT EMU-009, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
6. Trading Agreement, continued	iii. Reporting Requirements No later than March 1, of every year after issuance of this Trading Agreement and Order, SUBASENLON shall include with the Annual Emission Statement provided to the Commissioner, a record of each sale or other transfer, and use of any and all of the DERCs approved within and subsequent to issuance of this Trading Agreement and Order until all such DERCs have been used. SUBASENLON shall also include the amounts of all DERCs used including serial number (if assigned) and/or purchased from other facilities, and/or approved for the previous calendar year. These reports shall be on a form prescribed by the Commissioner. [Trading Agreement and Order 8112A Paragraph C.11] On or before September 1, 2006, SUBASENLON shall submit a report indicating how the facility will comply with Section 22a-174-22 of the Regulations after April 30, 2007. [Trading Agreement and Order 8112A Paragraph C.13] Within 15 days of the date SUBASENLON becomes aware of any change in any information submitted to the Commissioner under this Trading Agreement and Order, or that any such information was inaccurate or misleading or that any relevant information was omitted, SUBASENLON shall submit the correct or omitted information to the Commissioner. [Trading Agreement and Order 8112A Paragraph C.28] In the event that SUBASENLON becomes aware that it did not or may not comply, or did not or may not comply on time, with any requirement of this Trading Agreement and Order or of any document required hereunder, SUBASENLON shall immediately notify by telephone the individual identified in the next paragraph and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. Within five (5) days of the initial notice, SUBASENLON shall submit in writing the date, time, and duration of the noncompliance and the reasons for the noncompliance or delay and propose, for the review and written approval of the Commissioner, dates by which compliance shall be achieved, and SUBASENLON shall comply with any dates which may be approved in writing by the Commissioner. Notification by SUBASENLON shall not excuse noncompliance or delay, and the Commissioner's approval of any compliance dates proposed shall not excuse noncompliance or delay unless specifically so stated by the Commissioner in writing. [Trading Agreement and Order 8112A Paragraph C.29]

Section III: Applicable Requirements and Compliance Demonstration

G. GROUPED EMISSIONS UNITS GEMU-003

Table III.G: GROUPED EMISSIONS UNITS GEMU-003	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
1. Hours of Operation	Limitations or Restrictions No owner or operator of an emergency engine shall cause or allow such engine to operate except during periods of testing and scheduled maintenance or during an emergency and unless operation of such engine shall not exceed 500 hours during any twelve (12) month rolling aggregate. [RCSA §22a-174-3b(e)(2)(A)] i. Monitoring and Testing Requirements The Permittee shall monitor the hours of operation of the emergency engines, using an hour meter. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The owner or operator of an emergency engine shall make and maintain records of the hours of operation for each month and each twelve (12) month rolling aggregate. [RCSA §22a-174-3b(e)(4)] The consecutive 12 month hours of operation shall be calculated for each calendar month by adding the current calendar month's hours to those of the previous eleven months. [RCSA §22a-174-4(c)(1)]

Table III.G: GROUPED EMISSIONS UNITS GEMU-003, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
2. Sulfur content	Limitations or Restrictions No person, except as provided in RCSA §22a-174-19(a)(2)(ii), (a)(3)(i), and (a)(3)(ii), shall use or burn fuel which contains sulfur in excess of a maximum of one percent (1.0%) by weight (dry basis). [RCSA §22a-174-19(a)(2)(i)] No owner or operator of an emergency engine shall cause or allow such engine to operate except during periods of testing and scheduled maintenance or during an emergency and unless any nongaseous fuel consumed by such engine shall not exceed a sulfur content of 0.3% by weight, dry basis. [RCSA §22a-174-3b(e)(2)(B)] i. Monitoring and Testing Requirements The Permittee shall monitor the sulfur content of the nongaseous fuel used by the emergency engines. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the sulfur content of the nongaseous fuel used by the emergency engines. [RCSA §22a-174-3b(e)(3)] Any of the following records are sufficient to demonstrate the sulfur content of fuel used: (1) a fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider; (2) a sales receipt for the sale of motor vehicle diesel fuel from a retail location; or (3) a copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment. [RCSA §22a-174-3b(h)]

Table III.G: GROUPED EMISSIONS UNITS GEMU-003, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
3. Fuel Usage	i. Monitoring and Testing Requirements The Permittee shall calculate the annual fuel usage for each emergency engine, using the annual hours of operation and the maximum hourly fuel rating usage for each emergency engine. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the annual fuel usage for each emergency engine. [RCSA §22a-174-4(c)(1)]

Table III.G: GROUPED EMISSIONS UNITS GEMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
4. Particulate Matter	Limitations or Restrictions No person shall cause or permit the emission from fuel burning equipment of particulate matter in excess of the limitations listed in table 18-D-1. For all other sources that burn all fuels except residual oil, the limit is 0.20 pounds of particulate matter per million BTU of heat input. [RCSA §22a-174-18(d)(1)] The owner or operator of each stationary reciprocating internal combustion engine (identified in Part III of this form) that complies with the conditions set forth in Part IV of this form, shall be deemed by the Commissioner to comply with the particulate matter emission limitation of 0.20 pounds per million BTU of heat input set forth in the Regulations of Connecticut State Agencies (RCSA) Section 22a-174-18. [Stationary Reciprocating Internal Combustion Engine Compliance Assurance Form] a. The owner or operator of each SRICE listed in Part III of this form shall comply with the applicable particulate matter emission limitations set forth in RCSA Section 22a-174-18. Such owner or operator shall achieve compliance with such applicable particulate matter emission limitations no later than the date ninety (90) days following the effective date of an amendment to RCSA Section 22a-174-18 or February 1, 2005, whichever is earlier. b. Until compliance with the applicable particulate matter emission limitations set forth in RCSA Section 22a-174-18 is required under Part IV, Item 1 of this form, the owner or operator of each SRICE identified in Part III of this form shall: (1) Demonstrate compliance with the particulate emission standard set forth in RCSA Section 22a-174-18 by means of a stack test conducted in accordance with the requirements of RCSA Section 22a-174-5 or by submitting emissions data prepared by the manufacturer in accordance with test methodologies approved by the United States Environmental Protection Agency; or (2) Combust fuel with a sulfur content of 0.05% by weight sulfur; or (3) Combust kerosene or propane as fuel. i. Monitoring and Testing Requirements The Permittee shall monitor the sulfur content of the fuel used by these emergency engines. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the sulfur content of the fuel for each emergency engine to demonstrate compliance with the particulate matter emission standard. Any of the following records are sufficient to demonstrate the sulfur content of fuel used: (1) a fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider; (2) a sales receipt for the sale of motor vehicle diesel fuel from a retail location; or (3) a copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment. [RCSA §22a-174-33(j)(1)(K)(ii)]

Section III: Applicable Requirements and Compliance Demonstration

H. GROUPED EMISSIONS UNITS GEMU-004

Table III.H: GROUPED EMISSIONS UNITS GEMU-004	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
1. Hours of Operation	Limitations or Restrictions No owner or operator of an emergency engine shall cause or allow such engine to operate except during periods of testing and scheduled maintenance or during an emergency and unless operation of such engine shall not exceed 500 hours during any twelve (12) month rolling aggregate. [RCSA §22a-174-3b(e)(2)(A)] i. Monitoring and Testing Requirements The Permittee shall monitor the hours of operation of the emergency engines, using an hour meter. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The owner or operator of an emergency engine shall make and maintain records of the hours of operation for each month and each twelve (12) month rolling aggregate. [RCSA §22a-174-3b(e)(4)] The consecutive 12 month hours of operation shall be calculated for each calendar month by adding the current calendar month's hours to those of the previous eleven months. [RCSA §22a-174-4(c)(1)]

Table III.H: GROUPED EMISSIONS UNITS GEMU-004, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
2. Sulfur content	Limitations or Restrictions No person, except as provided in RCSA §22a-174-19(a)(2)(ii), (a)(3)(i), and (a)(3)(ii), shall use or burn fuel which contains sulfur in excess of a maximum of one percent (1.0%) by weight (dry basis). [RCSA §22a-174-19(a)(2)(i)] No owner or operator of an emergency engine shall cause or allow such engine to operate except during periods of testing and scheduled maintenance or during an emergency and unless any nongaseous fuel consumed by such engine shall not exceed a sulfur content of 0.3% by weight, dry basis. [RCSA §22a-174-3b(e)(2)(B)] i. Monitoring and Testing Requirements The Permittee shall monitor the sulfur content of the nongaseous fuel used by the emergency engines. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the sulfur content of the nongaseous fuel used by the emergency engines. [RCSA §22a-174-3b(e)(3)] Any of the following records are sufficient to demonstrate the sulfur content of fuel used: (1) a fuel certification for a delivery of nongaseous fuel from a bulk petroleum provider; (2) a sales receipt for the sale of motor vehicle diesel fuel from a retail location; or (3) a copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of nongaseous fuel as a condition of each shipment. [RCSA §22a-174-3b(h)]

Table III.H: GROUPED EMISSIONS UNITS GEMU-004, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
3. Fuel Usage	i. Monitoring and Testing Requirements The Permittee shall calculate the annual fuel usage for each emergency engine, using the annual hours of operation and the maximum hourly fuel rating usage for each emergency engine. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the annual fuel usage for each emergency engine. [RCSA §22a-174-4(c)(1)]

Table III.H: GROUPED EMISSIONS UNITS GEMU-004, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
4. NOx	i. Monitoring and Testing Requirements None. Subsections (d) through (k) of this section shall not apply to the owner or operator of an emergency engine. [RCSA §22a-174-22(b)(3)] Notwithstanding subdivision (3) of this subsection, subsections (d) through (k) of this section shall apply to the owner or operator of an emergency engine if, after May 1, 1997, such engine operates for routine, scheduled testing or maintenance on any day for which the Commissioner has forecast that ozone levels will be "moderate to unhealthful" "unhealthful," or "very unhealthful." The Commissioner may exempt, by permit or order, the owner or operator of an emergency engine from this subdivision, if such emergency engine is unattended, and testing is automated and cannot be modified from a remote location. [RCSA §22a-174-22(b)(5)] ii. Record Keeping Requirements The owner or operator of a stationary source subject to this section shall keep the following records: [RCSA §22a-174-22(l)(1)] a. Daily record of operating hours of such engine, identifying the operating hours of emergency and non-emergency use; [RCSA §22a-174-22(l)(1)(A)] b. Records (e.g. fuel use, continuous emissions monitoring, operating hours) to determine whether the NOx emissions from such premises on any day from May 1 to September 30, inclusive, are in excess of one hundred thirty-seven (137) pounds for premises located in a severe non-attainment area for ozone or two hundred seventy-four (274) pounds for premises located in a serious non-attainment area for ozone; [RCSA §22a-174-22(l)(1)(B)] c. Monthly and annual records (e.g. fuel use, continuous emissions monitoring, operating hours) to determine whether the NOx emissions from such premises in any calendar year are in excess of twenty-five (25) tons for premises located in a severe non-attainment area for ozone or fifty (50) tons for premises located in a serious non-attainment area for ozone; [RCSA §22a-174-22(l)(1)(C)] d. Records of all tune-ups, repairs, replacement of parts and other maintenance; [RCSA §22a-174-22(l)(1)(D)] e. Copies of all documents submitted to the Commissioner pursuant to this section; [RCSA §22a-174-22(l)(1)(E)] f. Procedures for calculating NOx emission rates in RCSA §22a-174-22(l)(1)(B) and (C) above. [RCSA §22a-174-22(l)(1)(G)] iii. Reporting Requirements On or before April 15 of each year, the owner or operator of a stationary source subject to this section shall submit a report on NOx emissions from such source, on a form provided by the Commissioner. [RCSA §22a-174-22(l)(6)]

Section III: Applicable Requirements and Compliance Demonstration

I. GROUPED EMISSIONS UNITS GEMU-005 & GEMU-006

Table III.I: GROUPED EMISSIONS UNITS GEMU-005 & GEMU-006

Pollutants or Process Parameters	Compliance Demonstration Requirements
1. Sulfur content	Limitations or Restrictions No person, except as provided in RCSA §22a-174-19(a)(2)(ii), (a)(3)(i), and (a)(3)(ii), shall use or burn fuel which contains sulfur in excess of a maximum of one percent (1.0%) by weight (dry basis). [RCSA §22a-174-19(a)(2)(i)] Note that Section V.:of this permit, State Enforceable Terms and Conditions, further limits the sulfur content of #2 heating oil to three-tenths of one percent sulfur by weight. [CGS §16a-21a] i. Monitoring and Testing Requirements The Permittee shall monitor the sulfur content of the liquid fuels burned in the engines, using either a fuel certification for a delivery of fuel from a bulk petroleum provider or a copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the sulfur content of the liquid fuels burned in the engines. Records for a fuel certification shall include the following information: the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. Records for a contract shall include the following information: the name of the fuel supplier, the type of fuel delivered, and the percentage of sulfur in such fuel, by weight, dry basis. [RCSA §22a-174-4(c)(1)]

Table III.I: GROUPED EMISSIONS UNITS GEMU-005 & GEMU-006, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
2. Hours of Operation	i. Monitoring and Testing Requirements The Permittee shall monitor the annual hours of operation of each engine, using an hour meter. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the annual hours of operation for each engine. [RCSA §22a-174-4(c)(1)]

Table III.I: GROUPED EMISSIONS UNITS GEMU-005 & GEMU-006, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
3. Fuel Usage	i. Monitoring and Testing Requirements The Permittee shall monitor the annual fuel usage of each engine, using the annual hours of operation and the maximum hourly fuel rating for each engine. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the annual fuel usage for each engine. [RCSA §22a-174-4(c)(1)]

Table III.I: GROUPED EMISSIONS UNITS GEMU-005 & GEMU-006, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
4. Particulate Matter	Limitations or Restrictions No person shall cause or permit the emission from fuel burning equipment of particulate matter in excess of the limitations listed in table 18-D-1. For all other sources that burn all fuels except residual oil, the limit is 0.20 pounds of particulate matter per million BTU of heat input. [RCSA §22a-174-18(d)(1)] The owner or operator of each stationary reciprocating internal combustion engine (identified in Part III of this form) that complies with the conditions set forth in Part IV of this form, shall be deemed by the Commissioner to comply with the particulate matter emission limitation of 0.20 pounds per million BTU of heat input set forth in the Regulations of Connecticut State Agencies (RCSA) Section 22a-174-18. [Stationary Reciprocating Internal Combustion Engine Compliance Assurance Form] a. The owner or operator of each SRICE listed in Part III of this form shall comply with the applicable particulate matter emission limitations set forth in RCSA Section 22a-174-18. Such owner or operator shall achieve compliance with such applicable particulate matter emission limitations no later than the date ninety (90) days following the effective date of an amendment to RCSA Section 22a-174-18 or February 1, 2005, whichever is earlier. b. Until compliance with the applicable particulate matter emission limitations set forth in RCSA Section 22a-174-18 is required under Part IV, Item 1 of this form, the owner or operator of each SRICE identified in Part III of this form shall: (1) Demonstrate compliance with the particulate emission standard set forth in RCSA Section 22a-174-18 by means of a stack test conducted in accordance with the requirements of RCSA Section 22a-174-5 or by submitting emissions data prepared by the manufacturer in accordance with test methodologies approved by the United States Environmental Protection Agency; or (2) Combust fuel with a sulfur content of 0.05% by weight sulfur; or (3) Combust kerosene or propane as fuel. i. Monitoring and Testing Requirements The Permittee shall monitor the sulfur content of the fuel used by these engines, using either a fuel certification for a delivery of fuel from a bulk petroleum provider or a copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the sulfur content of the fuel for each engine to demonstrate compliance with the particulate matter emission standard. Records for a fuel certification shall include the following information: the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. Records for a contract shall include the following information: the name of the fuel supplier, the type of fuel delivered, and the percentage of sulfur in such fuel, by weight, dry basis. [RCSA §22a-174-33(j)(1)(K)(ii)]

Section III: Applicable Requirements and Compliance Demonstration

J. GROUPED EMISSIONS UNIT GEMU-007

Table III.J: GROUPED EMISSIONS UNIT GEMU-007	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
1. Solvent Usage	i. Monitoring and Testing Requirements The Permittee shall monitor the amount of solvent added monthly to each cold cleaning unit by keeping a monthly log. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The owner or operator of any cold cleaning unit shall maintain a monthly record of the amount of solvent added to each unit and keep such record for a minimum of two (2) years after such record is made. [RCSA §22a-174-20(l)(3)(K)] The Permittee shall make and keep records of all monitoring data and supporting information for at least five (5) years from the date such data and information were obtained. [RCSA §22a-174-33(o)(2)]

Section III: Applicable Requirements and Compliance Demonstration

K. EMISSIONS UNIT EMU-086

Table III.K: EMISSIONS UNIT EMU-086	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
1. Coating and Solvent usage	i. Monitoring and Testing Requirements The Permittee shall monitor coating and solvent usage for the paint booth for wood, using records of material usage. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the annual coating and solvent usage for paint booth for wood. The records shall contain the information required below: [RCSA §22a-174-33(j)(1)(K)(ii)] A. Description of the coating including the coating name and the coating density in pounds per gallon; B. Volatile organic compound content by weight; C. Amount of each coating used in gallons; D. Total amount of diluent used for each coating in pounds and in gallons.

Table III.K: EMISSIONS UNIT EMU-086, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
2. VOC emissions	i. Monitoring and Testing Requirements The Permittee shall monitor VOC emissions from the paint booth for wood, using actual coating and solvent usage and the percentage of VOC as listed in Material Safety Data Sheets (MSDS) and product data sheets. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records for paint booth for wood of the following information: [RCSA §22a-174-4(c)(1)] a. The total annual VOC emissions for each coating, solvent, or diluent; and b. The total annual VOC emissions for the coating operation.

Section III: Applicable Requirements and Compliance Demonstration

L. GROUPED EMISSIONS UNITS GEMU-008

Table III.L: GROUPED EMISSIONS UNITS GEMU-008	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
1. Coating and Solvent usage	Limitations or Restrictions The owner or operator of a surface coating operation shall properly maintain equipment and conduct such coating operations only in accordance with the following limitations on VOCs, hazardous air pollutants and particulate matter: [RCSA §22a-174-3b(g)(1)] A. The VOC content of any coating used shall not exceed 6.3 pound per gallon, as applied; B. The hazardous air pollutant content of any coating used shall not exceed 6.3 pounds per gallon, as applied; C. Coating and solvent usage, including diluents and cleanup solvents but excluding water, shall not, in any twelve (12) month rolling aggregate, exceed 3,000 gallons; and D. Any electrostatic dry powder coating operation shall be operated only with particulate control equipment that meets the following requirements: (i) includes a minimum collection efficiency of 90% and (ii) is operated and maintained in good working condition. The owner or operator of a stationary source subject to subsections (m) through (s) of section 22a-174-20 inclusive shall achieve the emission limit under the appropriate paragraph by the application of low solvent content coating technology for each coating used. [RCSA §22a-174-20(bb)(1)(A)] i. Monitoring and Testing Requirements The Permittee shall monitor coating and solvent usage for the coating operations, using records of material usage. [RCSA §22a-174-33(j)(1)(K)(ii)]

Table III.L: GROUPED EMISSIONS UNITS GEMU-008, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
1. Coating and Solvent usage, continued	ii. Record Keeping Requirements The owner or operator of a surface coating operation shall maintain records of the following information: [RCSA §22a-174-3b(g)(3)] A. Records of the type and quantity of coating and solvent used, in gallons, for each month and each twelve (12) month rolling aggregate; B. Records of the hazardous air pollutant and VOC content per gallon of each coating and solvent used, as applied; and C. If the surface coating operation includes an electrostatic dry powder coating operation or a plasma spray operation, a record of the manufacturer's specifications for particulate control efficiency. The owner or operator of any premises subject to the provisions of subsections (m) through (s) inclusive and subsection (v) shall maintain daily records of all coatings and diluents used. Such records shall be kept for each individual machine, operation or coating line. The records must contain the information required below: [RCSA §22a-174-20(aa)(1)] A. Description of the coating including the coating name and the coating density in pounds per gallon; B. Volatile organic compound content by weight; C. Water and exempt volatile organic compound content by weight; D. Non- volatile organic compound content by volume and by weight; E. Amount of each coating used in gallons; F. Total amount of diluent used for each coating in pounds and in gallons.

Table III.L: GROUPED EMISSIONS UNITS GEMU-008, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
2. VOC emissions	Limitations or Restrictions Actual VOC emissions for each coating operation shall be less than 15 tons per year. [RCSA §22a-174-3b(b)(1)] i. Monitoring and Testing Requirements The Permittee shall monitor VOC emissions from the coating operations, using actual coating and solvent usage and the percentage of VOC as listed in Material Safety Data Sheets (MSDS) and product data sheets. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records for the coating operations of the following information: [RCSA §22a-174-4(c)(1)] a. The total monthly and annual VOC emissions for each coating, solvent, or diluent; and b. The total monthly and annual VOC emissions for the coating operations.

Section III: Applicable Requirements and Compliance Demonstration

M. GROUPED EMISSIONS UNITS GEMU-009

Table III.M: GROUPED EMISSIONS UNITS GEMU-009	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
1. Coating and Solvent usage	Limitations or Restrictions The owner or operator of a surface coating operation shall properly maintain equipment and conduct such coating operations only in accordance with the following limitations on VOCs, hazardous air pollutants and particulate matter: [RCSA §22a-174-3b(g)(1)] A. The VOC content of any coating used shall not exceed 6.3 pound per gallon, as applied; B. The hazardous air pollutant content of any coating used shall not exceed 6.3 pounds per gallon, as applied; C. Coating and solvent usage, including diluents and cleanup solvents but excluding water, shall not, in any twelve (12) month rolling aggregate, exceed 3,000 gallons; and D. Any electrostatic dry powder coating operation shall be operated only with particulate control equipment that meets the following requirements: (i) includes a minimum collection efficiency of 90% and (ii) is operated and maintained in good working condition. No owner or operator of an existing or new affected source shall cause or allow the application of any coating to a ship with an as-applied VOHAP content exceeding the applicable limit given in Table 2 of this subpart. [40 CFR §63.783(a)] Each owner or operator of an new or existing affected source shall insure that: [40 CFR §63.783(b)] A. All handling and transfer of VOHAP-containing materials to and from containers, tanks, vats, drums, and piping systems is conducted in a manner that minimizes spills. B. All containers, tanks, vats, drums, and piping systems are free of cracks, holes, and other defects and remain closed unless materials are being added to or removed from them. i. Monitoring and Testing Requirements The Permittee shall monitor coating and solvent usage for the spray booth for fiberglass masts, using records of material usage. [RCSA §22a-174-33(j)(1)(K)(ii)]

Table III.M: GROUPED EMISSIONS UNITS GEMU-009, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
1. Coating and Solvent usage, continued	ii. Record Keeping Requirements The owner or operator of a surface coating operation shall maintain records of the following information: [RCSA §22a-174-3b(g)(3)] A. Records of the type and quantity of coating and solvent used, in gallons, for each month and each twelve (12) month rolling aggregate; B. Records of the hazardous air pollutant and VOC content per gallon of each coating and solvent used, as applied; and C. If the surface coating operation includes an electrostatic dry powder coating operation or a plasma spray operation, a record of the manufacturer's specifications for particulate control efficiency. The owner or operator of an affected source shall compile records on a monthly basis and maintain those records for a minimum of 5 years. The records shall include all the information specified in §63.788(b). [40 CFR §63.788(b)] iii. Reporting Requirements Before the 60th day following completion of each 6-month period after the compliance date specified in §63.784, each owner or operator of an affected source shall submit a report to the Administrator for each of the previous 6 months. The report shall include all of the information that must be retained pursuant to paragraphs (b)(2) through (3) of this section, except for that information specified in paragraphs (b)(2)(i) through (ii), (b)(2)(v), (b)(3)(i)(A), (b)(3)(ii)(A), and (b)(3)(iii)(A). If a violation at an affected source is detected, the source shall also report the information specified in paragraph (b)(4) of this section for the reporting period during which the violation(s) occurred. To the extent possible, the report shall be organized according to the compliance procedure(s) followed each month by the affected source. [40 CFR §63.788(c)]

Table III.M: GROUPED EMISSIONS UNITS GEMU-009, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
2. VOC emissions	Limitations or Restrictions Actual VOC emissions for this spray booth shall be less than 15 tons per year. [RCSA §22a-174-3b(b)(1)] i. Monitoring and Testing Requirements The Permittee shall monitor VOC emissions from the spray booth for fiberglass masts, using actual coating and solvent usage and the percentage of VOC as listed in Material Safety Data Sheets (MSDS) and product data sheets. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the following information: [RCSA §22a-174-4(c)(1)] a. The total annual VOC emissions for each coating, solvent, or diluent; and b. The total annual VOC emissions for the spray booth.

Section III: Applicable Requirements and Compliance Demonstration

N. GROUPED EMISSIONS UNITS GEMU-010

Table III.N: GROUPED EMISSIONS UNITS GEMU-010

Pollutants or Process Parameters	Compliance Demonstration Requirements
1. Coating and Solvent usage	Limitations or Restrictions The owner or operator of a stationary source subject to subsections (m) through (s) of section 22a-174-20 inclusive shall achieve the emission limit under the appropriate paragraph by: (A) The application of low solvent content coating technology for each coating used. [RCSA §22a-174-20(bb)(1)(A)] i. Monitoring and Testing Requirements The Permittee shall monitor coating and solvent usage for the coating operations, using records of material usage. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The owner or operator of any premises subject to the provisions of subsections (m) through (s) inclusive and subsection (v) shall maintain daily records of all coatings and diluents used. Such records shall be kept for each individual machine, operation or coating line. The records must contain the information required below: [RCSA §22a-174-20(aa)(1)] A. Description of the coating including the coating name and the coating density in pounds per gallon; B. Volatile organic compound content by weight; C. Water and exempt volatile organic compound content by weight; D. Non- volatile organic compound content by volume and by weight; E. Amount of each coating used in gallons; F. Total amount of diluent used for each coating in pounds and in gallons.

Table III.N: GROUPED EMISSIONS UNITS GEMU-010, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
2. VOC emissions	Limitations or Restrictions Respondent shall not allow emissions of VOC from the system to exceed 1,666 pounds in any calendar month. [Consent Order No. 8049 Part B.1.a.] If during any calendar month the system emits more than 1,666 pounds of VOC, it shall cease from that time forward to be exempt from the emission limitations of Section 22a-174-20(s)(3) of the Regulations. [Consent Order No. 8049 Part B.1.d.] i. Monitoring and Testing Requirements The Permittee shall monitor VOC emissions from the coating operations, using actual coating and solvent usage and the percentage of VOC as listed in Material Safety Data Sheets (MSDS) and product data sheets. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records for the coating operations of the following information: [RCSA §22a-174-4(c)(1)] a. The total monthly and annual VOC emissions for each coating, solvent, or diluent; and b. The total monthly and annual VOC emissions for the coating operations. iii. Reporting Requirements Respondent shall submit the above-described records to the Commissioner within two months of the end of the calendar year during which they were prepared. [Consent Order No. 8049 Part B.1.b.] Within ten days of the date Respondent becomes aware that the system has emitted or is reasonably likely to emit more than 1,666 pounds of VOC in a calendar month, Respondent shall notify the Commissioner in writing that such exceedence has occurred or is reasonably likely to occur. Upon making such notification, Respondent shall commence to submit the records described in paragraph B(1)(b) hereinabove to the Commissioner within ten days of the end of each calendar month for which they were prepared. Respondent shall continue making such submittals unless the Commissioner notifies Respondent in writing that Respondent may discontinue them. [Consent Order No. 8049 Part B.1.e.]

O. GROUPED EMISSIONS UNITS GEMU-011

Table III.O: GROUPED EMISSIONS UNITS GEMU-011

Pollutants or Process Parameters	Compliance Demonstration Requirements
1. Coating and Solvent Usage	Limitations or Restrictions No owner or operator of an existing or new affected source shall cause or allow the application of any coating to a ship with an as-applied VOHAP content exceeding the applicable limit given in Table 2 of this subpart. [40 CFR §63.783(a)]

Table 2 To Subpart II of Part 63. – VOHAP Limits[abc] for Marine Coatings [40 CFR Part 63 Subpart II Table 2]

Coating Category	grams/liter coating (minus water & exempt compounds)	grams/liter solids[d]	
		t>= 4.5°C	t< 4.5°C[e]
General Use	340	571	728
Specialty:			
Air flask	340	571	728
Antenna	530	1439	
Antifoulant	400	765	971
Heat resistant	420	841	1069
High-gloss	420	841	1069
High temperature	500	1237	1597
Inorganic zinc high-build	340	571	728
Military exterior	340	571	728
Mist	610	2235	
Navigational aids	550	1597	
Nonskid	340	571	728
Nuclear	420	841	1069
Organic zinc	360	630	802
Pretreatment wash primer	780	1195	
Repair and maint. of thermoplastics	550	1597	
Rubber camouflage	340	571	728
Sealant for thermal spray aluminum	610	2235	
Special marking	490	1178	
Specialty interior	340	571	728
Tack coat	610	2235	
Undersea weapons systems	340	571	728
Weld-through precon. primer	650	2885	

Table III.O: GROUPED EMISSIONS UNITS GEMU-011

Pollutants or Process Parameters	Compliance Demonstration Requirements
1. Coating and Solvent Usage, continued	Limitations or Restrictions, continued Footnotes for Table 2 To Subpart II of Part 63 a The limits are expressed in two sets of equivalent units. Either set of limits may be used for the compliance procedure described in §63.785(c)(1), but only the limits expressed in units of g/L solids (nonvolatiles) shall be used for the compliance procedures described in §63.785(c)(2) through (4). b VOC (including exempt compounds listed as HAP) shall be used as a surrogate for VOHAP for those compliance procedures described in§63.785(c)(1) through (3). c To convert from g/L to lb/gal, multiply by (3.785 L/gal)(1/453.6 lb/g) or 1/120. For compliance purposes, metric units define the standards. d VOHAP limits expressed in units of mass of VOHAP per volume of solids were derived from the VOHAP limits expressed in units of mass of VOHAP per volume of coating assuming the coatings contain no water or exempt compounds and that the volumes of all components with a coating are additive. e These limits apply during cold-weather time periods, as defined in §63.782. Cold-weather allowances are not given to coatings in categories that permit less than 40 percent volume solids (nonvolatiles). Such coatings are subject to the same limits regardless of weather conditions. Each owner or operator of an new or existing affected source shall insure that: [40 CFR §63.783(b)] A. All handling and transfer of VOHAP-containing materials to and from containers, tanks, vats, drums, and piping systems is conducted in a manner that minimizes spills. B. All containers, tanks, vats, drums, and piping systems are free of cracks, holes, and other defects and remain closed unless materials are being added to or removed from them. i. Monitoring and Testing Requirements The Permittee shall monitor coating and solvent usage for the system, using records of material usage. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The owner or operator of an affected source shall compile records on a monthly basis and maintain those records for a minimum of 5 years. The records shall include all the information specified in §63.788(b). [40 CFR §63.788(b)] iii. Reporting Requirements Before the 60th day following completion of each 6-month period after the compliance date specified in §63.784, each owner or operator of an affected source shall submit a report to the Administrator for each of the previous 6 months. The report shall include all of the information that must be retained pursuant to paragraphs (b)(2) through (3) of this section, except for that information specified in paragraphs (b)(2)(i) through (ii), (b)(2)(v), (b)(3)(i)(A), (b)(3)(ii)(A), and (b)(3)(iii)(A). If a violation at an affected source is detected, the source shall also report the information specified in paragraph (b)(4) of this section for the reporting period during which the violation(s) occurred. To the extent possible, the report shall be organized according to the compliance procedure(s) followed each month by the affected source. [40 CFR §63.788(c)]

Table III.O: GROUPED EMISSIONS UNITS GEMU-011, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
2. VOC emissions	i. Monitoring and Testing Requirements The Permittee shall monitor VOC emissions from the system, using actual coating and solvent usage and the percentage of VOC as listed in Material Safety Data Sheets (MSDS) and product data sheets. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the following information: [RCSA §22a-174-4(c)(1)] a. The total annual VOC emissions for each coating, solvent, or diluent; and b. The total annual VOC emissions for the spray booth.

Section III: Applicable Requirements and Compliance Demonstration

P. EMISSIONS UNIT EMU-131

Table III.P: EMISSIONS UNIT EMU-131	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
1. Quantity of Abrasives Used	Limitations or Restrictions The maximum quantity of abrasive used over any consecutive 12 month period for the Abrasive Blast Booth is 2,396,160 pounds per year of steel grit and aluminum oxide. [P 070-0231 Part I.1 & 2] i. Monitoring and Testing Requirements The Permittee shall monitor the quantity of abrasive used in the Abrasive Blast Booth, using records of material usage. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the monthly and consecutive twelve month quantity of abrasive used in the Abrasive Blast Booth. The consecutive twelve month usage shall be determined by adding the current month's usage to that of the previous eleven (11) months. The Permittee shall make these calculations monthly. [P 070-0231 Part IV.1]

Table III.P: EMISSIONS UNIT EMU-131, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
2. Allowable Emission Limits	Limitations or Restrictions The Permittee shall not exceed the following emission limits for the Abrasive Blast Booth. [P 070-0231 Part V.] Criteria Pollutants #/hr TPY PM/PM-10 0.006 0.012 i. Monitoring and Testing Requirements The Permittee shall demonstrate compliance with the above emission limit for the Abrasive Blast Booth using an emission factor of 0.01 lb of particulate/lb of abrasive and a control efficiency of 99.999%. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall make and keep records of the monthly and consecutive twelve month PM/PM-10 emissions for the Abrasive Blast Booth. [RCSA §22a-174-4(c)(1)]

Table III.P: EMISSIONS UNIT EMU-131, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
3. Hazardous Air Pollutants	Limitations or Restrictions Emissions of these pollutants shall comply with RCSA 22a-174-29 concerning Hazardous Air Pollutants and in no case shall the Allowable Stack Concentration (ASC) exceed the Maximum Allowable Stack Concentration (MASC) value for pollutants listed below. [P 070-0231 Part V.] Hazardous Air Pollutant Summary Hazardous Air Pollutants — MASC ($\mu g/m^3$) Titanium oxide — 10,214.21 Iron oxide — 3,404.74 Calcium oxide — 1,361.89 Barium — 340.47 Cadmium — 13.62 Chromium — 85.12 Mercury — 6.81 Selenium — 136.19 Lead (Pb) — 102.14 i. Monitoring and Testing Requirements The Permittee shall calculate the actual stack concentration (ASC) and the maximum allowable stack concentration (MASC) of the hazardous air pollutants (HAPs) listed above using the formula in RCSA 22a-174-29. The Permittee shall demonstrate, by comparing the results from such calculations, that the ASC of each HAP does not exceed the appropriate MASC. [RCSA 22a-174-29] ii. Record Keeping Requirements The Permittee shall make and keep records of the ASC and MASC for the above pollutants for the Abrasive Blast Booth. [RCSA §22a-174-4(c)(1)]

Table III.P: EMISSIONS UNIT EMU-131, continued	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
4. Pressure Drop	Limitations or Restrictions The Permittee shall activate the pulse air cleaner prior to reaching a pressure differential of 6.0 in. H_2O across the filter and it shall be activated so as to maintain a pressure differential across the filter between 1 and 6 in. H_2O. [P 070-0231 Part II.12] i. Monitoring and Testing Requirements The Permittee shall monitor the pressure drop in inches of H_2O across the filter of the Abrasive Blast Booth at least once per operational shift. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall record the pressure drop in inches of H_2O across the filter of the Abrasive Blast Booth at least once per operational shift. [P 070-0231 Part IV.3]

Section III: Applicable Requirements and Compliance Demonstration

Q. EMISSIONS UNIT EMU-081

Table III.Q: EMISSIONS UNIT EMU-081	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
1. Gasoline Throughput	Limitations or Restrictions No person shall place, store, or hold in any stationary storage vessel of more than 250-gallon (950 liter) capacity any volatile organic compound with a vapor pressure of 1.5 pounds per square inch or greater under actual storage conditions unless such vessel is equipped with a permanent submerged fill pipe with a discharge point eighteen (18) inches or less from the bottom of the storage vessel or is a pressure tank as described in subdivision 22a-174-20(a)(2). [RCSA §22a-174-20(a)(3)] i. Monitoring and Testing Requirements The Permittee shall monitor daily throughput of gasoline using a fuel meter. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The owner or operator of any premises subject to the provisions of subdivisions 22a-174-20(b)(5) or (b)(6) shall maintain the following records for the premises: A. Daily throughput of gasoline. [RCSA §22a-174-20(aa)(5)(A)]

Table III.Q: EMISSIONS UNIT EMU-081, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
2. Stage II Vapor Recovery System	Limitations or Restrictions By December 31, 1982, any person who owns or operates any dispensing facility with a stationary storage tank for gasoline having a capacity of more than two thousand (2,000) gallons and a throughput of ten thousand (10,000) gallons or more per thirty (30) day period shall install at each stationary storage tank an approved control system. The applicability of this subdivision shall be based upon a thirty day rolling average and once a loading facility exceeds this limit, the requirements of this subdivision shall always apply. [RCSA §22a-174-20(b)(6)] After November 15, 1993, no person who owns, leases, operates or controls a dispensing facility, which existed, or for which construction commenced, on or before Nov 15, 1990 and which has a monthly throughput of one hundred thousand (100,000) gallons or more shall transfer or allow the transfer of gasoline into a motor vehicle fuel tank at such dispensing facility unless a properly operating Stage II vapor recovery system is used for such transfer. [RCSA §22a-174-30(b)(3)] i. Monitoring and Testing Requirements At least every five years or upon major system modification, whichever occurs first, a person who owns, leases, operates or controls a dispensing facility shall conduct testing to verify that the Stage II vapor recovery system is operating properly. Such testing shall include a leak check test and any and all other functional tests that were required by subdivision (e)(1). [RCSA §22a-174-30(e)(2)] Before a person other than a representative of the Department conducts testing pursuant to subdivision (e)(1) or (e)(2), the person who owns, leases, operates or controls a dispensing facility shall notify the Department's Bureau of Air Management at least four (4) business days in advance of such testing. Such notification shall include the date, time, and location of the test and the name and address of the person conducting the test. [RCSA §22a-174-30(e)(3)] ii. Record Keeping Requirements The owner or operator of any premises subject to the provisions of subdivisions 22a-174-20(b)(5) or (b)(6) shall maintain the following records for the premises: B. Records of both scheduled and unscheduled maintenance of the vapor balance system and other system components. [RCSA §22a-174-20(aa)(5)(B)] Any person who owns, leases, operates or controls a dispensing facility shall: maintain the following records [RCSA §22a-174-30(f)(2)] A. Records and results of tests performed pursuant to subdivisions (e)(1) and (e)(2), including the date of the testing and the names, addresses, and phone numbers of the persons who installed and tested such Stage II vapor recovery system. B. A record of any maintenance or repair conducted on any part of the Stage II vapor recovery system, including a description of the maintenance problem, identification of any part or parts repaired or replaced on such Stage II vapor recovery system, the date such part or parts were repaired or replaced, and a general description of the location of the part or parts in the system including the number of the gasoline dispenser.

Section III: Applicable Requirements and Compliance Demonstration

R. EMISSIONS UNIT EMU-083

Table III.R: EMISSIONS UNIT EMU-083	
Pollutants or Process Parameters	**Compliance Demonstration Requirements**
1. Gasoline Throughput	Limitations or Restrictions No person shall place, store, or hold in any stationary storage vessel of more than 250-gallon (950 liter) capacity any volatile organic compound with a vapor pressure of 1.5 pounds per square inch or greater under actual storage conditions unless such vessel is equipped with a permanent submerged fill pipe with a discharge point eighteen (18) inches or less from the bottom of the storage vessel or is a pressure tank as described in subdivision 22a-174-20(a)(2). [RCSA §22a-174-20(a)(3)] i. Monitoring and Testing Requirements The Permittee shall monitor monthly throughput of gasoline using a fuel meter. [RCSA §22a-174-33(j)(1)(K)(ii)] ii. Record Keeping Requirements The Permittee shall maintain records of the monthly throughput of gasoline for this unit. [RCSA §22a-174-4(c)(1)]

Section III: Applicable Requirements and Compliance Demonstration

S. PREMISES-WIDE GENERAL REQUIREMENTS

Table III.S: PREMISES-WIDE GENERAL REQUIREMENTS

Pollutants or Process Parameters	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
Record Keeping Requirements	RCSA §22a-174-33(o)(2)	1. The Permittee shall maintain and keep records of all required monitoring data and supporting information at the premises and make such records available for inspection and copying by the Commissioner at the premises, for at least five years from the date such data and information were obtained, in accordance with Section VII.F. of this permit and RCSA §22a-174-33(o)(2).
Reporting Requirements	RCSA §22a-174-33(o)(1) §22a-174-33(q)(1) §22a-174-33(q)(2) §22a-174-33(p)	2.a The Permittee shall submit to the commissioner written monitoring reports on January 30 and July 30 of each year in accordance with Section VII.E. of this permit and RCSA §22a-174-33(o)(1). 2.b The Permittee shall, on January 30 and July 30 of each year, submit to the commissioner, a progress report, regarding the Permittee's progress in achieving compliance under the compliance schedule contained in this permit, in accordance with Section VII.G. of this permit and RCSA §22a-174-33(q)(1). 2.c The Permittee shall, on January 30 of each year, submit to the commissioner a written compliance certification in accordance with Section VII.H. of this permit and RCSA §22a-174-33(q)(2). 2.d The Permittee hall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation from an emissions limitation, in accordance with Section VII.I. of this permit and RCSA §22a-174-33(p).
Permitting Requirements	RCSA §22a-174-2a	3. The Permittee shall comply with the procedural requirements for new source review and Title V permitting in accordance with RCSA §22a-174-2a.
Exemptions from Permitting	RCSA §22a-174-3b	4. The owner or operator of a stationary source that is an external combustion unit, an automotive refinishing operation, a nonmetallic mineral processing equipment, an emergency engine or a surface coating operation may construct and operate such source without obtaining a general permit for such source issued pursuant to CGS §22a-174(1) or a permit pursuant to RCSA §22a-174-3a in accordance with RCSA §22a-174-3b.
Emission Statements	RCSA §22a-174-4	5. The Permittee shall submit annual emission inventory statements to the Commissioner in accordance with RCSA §22a-174-4(c)(1).
Source Monitoring	RCSA §22a-174-4	6. The Permittee shall comply with the procedures for source monitoring as specified in RCSA §22a-174-4.
Emission Testing	RCSA §22a-174-5	7. The Permittee shall comply with the methods of sampling, emission testing, sample analysis, and reporting as specified in RCSA §22a-174-5.

Table III.S: PREMISES-WIDE GENERAL REQUIREMENTS, continued

Pollutants or Process Parameters	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
Emergency Episode Procedures	RCSA §22a-174-6	8. The Permittee shall comply with the procedures for emergency episodes as specified in RCSA §22a-174-6.
Malfunctions	RCSA §22a-174-7	9. The Permittee shall comply with the procedures for malfunction of control equipment as specified in RCSA §22a-174-7.
Public Availability of Information	RCSA 22a-174-10	10. The public availability of information shall apply, as specified in RCSA §22a-174-10.
Prohibition against Concealment/ circumvention	RCSA §22a-174-11	11. The Permittee shall comply with the prohibition against concealment or circumvention as specified in RCSA §22a-174-11.
Severability	RCSA §22a-174-15	12. Severability shall apply as specified in RCSA §22a-174-15.
Particulates	RCSA §22a-174-18	13. The Permittee shall comply with the standards for control of particulate emissions as specified in RCSA §22a-174-18.
Sulfur Compounds	RCSA §22a-174-19	14. The Permittee shall comply with the standards for control of sulfur compound emissions as specified in RCSA §22a-174-19.
Organic Compounds	RCSA §22a-174-20	15. The Permittee shall comply with the standards for control of organic compound emissions as specified in RCSA §22a-174-20.
Nitrogen Oxides	RCSA §22a-174-22	16. The Permittee shall comply with the standards for control of nitrogen oxides emissions as specified in RCSA §22a-174-22.
Emission Fees	RCSA §22a-174-26	17. The Permittee shall pay an emission fee in accordance with RCSA §22a-174-26.

Table III.S: PREMISES-WIDE GENERAL REQUIREMENTS, continued

Pollutants or Process Parameters	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
Dispensing of Gasoline/ Stage II vapor recovery	RCSA §22a-174-30	18. The Permittee shall comply with the standards for dispensing of gasoline/Stage II vapor recovery as specified in RCSA §22a-174-30.
Conformity Determination	40 CFR Part 51 Subpart W	19. The Permittee shall comply with the procedures for conformity determinations as specified in 40 CFR Part 51 Subpart W.
Radionuclide Emissions	40 CFR Part 61 Subpart I	20. The Permittee shall comply with the procedures for control of radionuclide emissions as specified in 40 CFR Part 61 Subpart I using alternate procedures approved by EPA, as documented in a letter to the Department of the Navy from EPA dated October 1, 1997.
Asbestos	40 CFR Part 61 Subpart M	21. The Permittee shall comply with the procedures for control of asbestos emissions as specified in 40 CFR Part 61 Subpart M.
Refrigerants	40 CFR Part 82 Subpart F	22. The Permittee shall comply with the procedures for recycling and emissions reduction as specified in 40 CFR Part 82 Subpart F (Protection of Stratospheric Ozone).

Section III: Applicable Requirements and Compliance Demonstration

T. WORK PRACTICE STANDARDS AND OPERATION AND MAINTENANCE (O&M) PRACTICES

Table III.T: Work Practice Standards and Operation and Maintenance (O&M) Practices

Emissions Unit	Applicable Regulatory References/Citations	Work/O&M Practice Requirements
EMU-005 EMU-007	P 070-0074 Part VIII.1 P 070-0096 Part VIII.A	1. The Permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications and written recommendations.
EMU-005, EMU-007	40 CFR Part 60 Subpart A	2. The provisions of this part shall apply to the owner or operator of any stationary source, which contains an affected facility.
GEMU-003, GEMU-004	RCSA §22a-174-3b(e)(1)	3. The owner or operator of an emergency engine shall properly maintain equipment and operate such engine in accordance with this subsection.
GEMU-007	RCSA §22a-174-20 (l) (3)	4. The Permittee shall meet all of the following required work and operational practices as applicable. i. Store waste degreasing solvent only in covered containers and not dispose of waste degreasing solvent or transfer it to another party, in a manner such that greater than 20 percent of the waste degreasing solvent (by weight) can evaporate into the atmosphere. [RCSA 22a-174-20(l)(3)(C)] ii. Close the cover whenever parts are not being handled in the cleaner for two (2) minutes or more, or when the device is not in use. [RCSA 22a-174-20(l)(3)(D)] iii. Drain the clean parts for at least 15 seconds or until dripping ceases, whichever is longer. [RCSA 22a-174-20(l)(3)(E)] iv. If used, supply a degreasing solvent spray that is a solid fluid stream (not a fine, atomized or shower type spray) at a pressure which does not exceed ten (10) pounds per square inch as measured at the pump outlet and perform such spraying within the confines of the cold cleaning unit. [RCSA 22a-174-20(l)(3)(F)] v. Minimize the drafts across the top of each cold cleaning unit such that whenever the cover is open the unit is not exposed to drafts greater than 40 meters per minute, as measured between 1 and 2 meters upwind, and at the same elevation as the tank lip. [RCSA 22a-174-20(l)(3)(H)] vi. Do not operate the unit upon the occurrence of any visible solvent leak until such leak is repaired. [RCSA 22a-174-20(l)(3)(I)]

Table III.T: Work Practice Standards and Operation and Maintenance (O&M) Practices, continued

Emissions Unit	Applicable Regulatory References/Citations	Work/O&M Practice Requirements
GEMU-001, EMU-005, EMU-007, EMU-086, GEMU-008, GEMU-009, GEMU-010, EMU-131, EMU-081	RCSA §22a-174-7 (a) - (d)	5. The Permittee shall comply with the following: i. Equipment or methods which control air pollutant emissions from a stationary source and which are necessary to the operation of such stationary source in compliance with applicable emission standards and regulations shall be maintained in operation at all times that the stationary source is in operation or emitting air pollutants. This includes instruments required by permit, order, or regulation which measure those source operating parameters which affect air pollutant emissions, air pollution control equipment, or other instruments which measure meteorological data required by permit, order or regulation. ii. No person shall deliberately shut down any such control equipment, method or other instruments specified in subsection 22a-174-7(a) while the source is in operation except for such necessary maintenance as cannot be accomplished when the stationary source itself is not in operation and is not emitting air pollutants. iii. In the event of breakdown, failure, or deliberate shut down of any control equipment, method, or other instrument specified in subsection 22a-174-7(a) during which time the stationary source will be in operation, all reasonable measures shall be taken to assure resumption of the control equipment as soon as possible. Due diligence shall be exercised to minimize emissions while the control equipment or method is inoperative. In the event such shutdown of control equipment or methods is expected or may reasonably be expected to continue for longer than 72 hours, and if the source is to be operated at any time during that period, the Commissioner shall be notified promptly except that for a resource recovery facility such time period shall be 24 hours. Such notice shall include, but is not limited to, the following: a. Identification of the specific equipment or instrument taken out, or to be taken out, of service as well as its location, and, where applicable, registration or permit number; b. The expected length of time that the air pollution control equipment or instrument will be out of service; c. The nature and quantity of emissions of air pollutants likely to be emitted during the shutdown period; d. Measures such as the use of offshift labor and equipment that will be taken to minimize the length of the shutdown period; e. The reasons that it would be impossible or impractical to shut down the stationary source operation during the maintenance period. iv. The Commissioner may attach conditions to the operation of the source during the period of shutdown or breakdown.
GEMU-008, GEMU-009	RCSA §22a-174-3b(g)(1)	6. The owner or operator of a surface coating operation shall properly maintain equipment and conduct such coating operations only in accordance with this subsection.

Table III.T: Work Practice Standards and Operation and Maintenance (O&M) Practices, continued

Emissions Unit	Applicable Regulatory References/Citations	Work/O&M Practice Requirements
EMU-131	P 070-0231 Part II.9-11	7.i The Permittee shall maintain the filters in accordance with the manufacturer's specifications and shall activate the pulse air cleaner during blasting operations. 7.ii The Permittee shall keep the blasting operations at a constant negative pressure. 7.iii The Permittee shall install an interlock system such that the blasting can not operate unless the exhaust system is operating in conformance with this permit.
	P 070-0231 Part IV.2	7.iv The Permittee shall record the date and details of all repairs and maintenance to the baghouse and exhaust systems.
EMU-081, EMU-083	RCSA §22a-174-20(b)(8)	8. Effective May 31, 1983, no person shall transfer or allow the transfer of gasoline from a delivery vehicle to a stationary storage tank subject to the provisions of subdivisions (6) or (7) of this subsection unless: i. the transfer is made through a properly maintained and operated approved control system which is in good working order, connected and operating; and ii. there are no leaks in pressure/vacuum relief valves and hatch covers of the delivery vehicle, nor in the tank trucks, storage tank or associated vapor and liquid lines during loading or unloading.
EMU-081	RCSA §22a-174-30(d)	9.i Any person who owns, leases, operates, or controls a dispensing facility subject to subdivision (b)(1), (b)(2), (b)(3) or (b)(4) shall require at least one representative to attend and successfully complete a training session, provided by an equipment manufacturer, supplier, distributor or installer, in the operation and maintenance of the Stage II vapor recovery system. 9.ii Any person who owns, leases, operates, or controls a dispensing facility shall maintain the Stage II vapor recovery system in accordance with the specifications approved by CARB on or before November 1, 1992. 9.iii Any person who owns, leases, operates, or controls a dispensing facility shall post, on the upper two-thirds of each gasoline dispenser, operating instructions for dispensing gasoline using the Stage II vapor recovery system. Such instructions shall be located conspicuously. Such instructions shall include, at a minimum, the following: (a) a clear description of how to correctly dispense gasoline using the Stage II vapor recovery system; (b) a warning not to attempt to continue dispensing gasoline after automatic shutoff of the nozzle; and (c) the telephone number of a contact at the Department to whom to report problems experienced with the Stage II vapor recovery system.
EMU-081	RCSA §22a-174-30(g)	10.i Any part of a Stage II vapor recovery system having a defect, as defined by subdivision (g)(3), shall be immediately tagged "out of order" by the person who owns, leases, operates, or controls the dispensing facility. 10.ii Any person who owns, leases, operates, or controls a dispensing facility shall not allow the use of any part of a Stage II vapor recovery system which has been tagged "out of order" until such part has been repaired or replaced.

Section IV: Compliance Schedule

ThERE IS NO COMPLIANCE SCHEDULE.

TABLE IV: COMPLIANCE SCHEDULE				
Emissions Unit	**Applicable Regulations**	**Steps required for achieving compliance (Milestones)**	**Date by which each step is to be completed**	**Dates for monitoring, record keeping, and reporting**

Section V: State Enforceable Terms and Conditions

Only the Commissioner of the Department of Environmental Protection has the authority to enforce the terms, conditions and limitations contained in this section.

A. This permit does not relieve the permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Environmental Protection or any federal, local or other state agency. Nothing in this permit shall relieve the permittee of other obligations under applicable federal, state and local law.

B. Nothing in this permit shall affect the Commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the permittee by the Commissioner.

C. Odors: The permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor that constitutes a nuisance beyond the property boundary of the premises as set forth in RCSA Section 22a-174-23.

D. Noise: The permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA 22a-69-1 through 22a-69-7.4, inclusive.

E. Hazardous Air Pollutants (HAPs): The permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA §22a-174-29.

F. Open Burning: The permittee is prohibited from conducting open burning, except as may be allowed by CGS 22a-174(f).

G. Fuel Sulfur Content: The permittee shall not use #2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS 16a-21a.

Section VI: Permit Shield

NO PERMIT SHIELD HAS BEEN GRANTED.

Section VII: Title V Requirements

The Administrator of the United States Environmental Protection Agency and the Commissioner of Environmental Protection have the authority to enforce the terms and conditions contained in these sections.

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

The date of submission to the Commissioner of any document required by this permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this permit, including, but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" means calendar day. Any document or action which is required by this permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.

Any document required to be submitted to the Commissioner under this permit shall, unless otherwise specified in writing by the Commissioner, be directed to: Office of the Assistant Director; Compliance & Field Operations Division; Bureau of Air Management; Department of Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

Any submittal to the Administrator of the U. S. Environmental Protection Agency shall be in a computer-readable format and addressed to: Director, Air Compliance Program; Attn: Air Compliance Clerk; Office of Environmental Stewardship; US EPA, Region 1;One Congress Street; Suite 1100 (SEA); Boston, MA 02114-2023.

B. CERTIFICATIONS [RCSA § 22a-174-33(b)]

In accordance with Section 22a-174-33(b) of the RCSA, any report or other document required by this Title V permit and any other information submitted to the Commissioner or Administrator shall be signed by an individual described in Section 22a-174-2a(a) of the RCSA, or by a duly authorized representative of such individual. Any individual signing any document pursuant to Section 22a-174-33(b) of the RCSA shall examine and be familiar with the information submitted in the document and all attachments thereto, and shall make inquiry of those individuals responsible for obtaining the information to determine that the information is true, accurate, and complete, and shall also sign the following certification as provided in Section 22a-174-2a(a)(5) of the RCSA:

> "I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information may be punishable as a criminal offense under Section 22a-175 of the Connecticut General Statutes, under Section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute."

C. SIGNATORY RESPONSIBILITY [RCSA § 22a-174-2a(a)]

If an authorization pursuant to Section 22a-174-2a(a) of the RCSA is no longer effective because a different individual or position has assumed the applicable responsibility, a new authorization satisfying the requirements of Section 22a-174-2a(a)(2) of the RCSA shall be submitted to the Commissioner prior to or together with the submission of any applications, reports, forms, compliance certifications, documents or other information which is signed by an individual or a duly authorized representative of such individual pursuant to Section 22a-174-2a(a)(2) of the RCSA.

Section VII: Title V Requirements

D. ADDITIONAL INFORMATION [RCSA § 22a-174-33(j)(1)(X)]

The permittee shall submit additional information in writing, at the Commissioner's request, within thirty (30) days of receipt of notice from the Commissioner or by such other date specified by the Commissioner, whichever is earlier, including information to determine whether cause exists for modifying, revoking, reopening, reissuing, or suspending the permit or to determine compliance with the permit.

In addition, within fifteen days of the date the permittee becomes aware of a change in any information submitted to the Commissioner under this permit or of any change in any information contained in the application, or that any such information was inaccurate or misleading or that any relevant information was omitted, the permittee shall submit the changed, corrected, or omitted information to the Commissioner.

E. MONITORING REPORTS [RCSA § 22a-174-33(o)(1)]

A permittee, required to perform monitoring pursuant this permit, shall submit to the Commissioner, on forms prescribed by the Commissioner, written monitoring reports on January 30 and July 30 of each year or on a more frequent schedule if specified in such permit. Such monitoring reports shall include the date and description of each deviation from a permit requirement including, but not limited to:

1. Each deviation caused by upset or control equipment deficiencies; and

2. Each deviation of a permit requirement that has been monitored by the monitoring systems required under this permit, which has occurred since the date of the last monitoring report; and

3. Each deviation caused by a failure of the monitoring system to provide reliable data.

F. PREMISES RECORDS [RCSA § 22a-174-33(o)(2)]

Unless otherwise required by this permit, the permittee shall make and keep records of all required monitoring data and supporting information for at least five (5) years from the date such data and information were obtained. The permittee shall make such records available for inspection at the site of the subject source, and shall submit such records to the Commissioner upon request. The following information, in addition to required monitoring data, shall be recorded for each permitted source:

1. The type of monitoring or records used to obtain such data, including record keeping;

2. The date, place, and time of sampling or measurement;

3. The name of the individual who performed the sampling or the measurement and the name of such individual's employer;

4. The date(s) on which analyses of such samples or measurements were performed;

5. The name and address of the entity that performed the analyses;

6. The analytical techniques or methods used for such analyses;

7. The results of such analyses;

F. PREMISES RECORDS, continued [RCSA § 22a-174-33(o)(2)]

8. The operating conditions at the subject source at the time of such sampling or measurement; and

9. All calibration and maintenance records relating to the instrumentation used in such sampling or measurements, all original strip-chart recordings or computer printouts generated by continuous monitoring instrumentation, and copies of all reports required by the subject permit.

G. PROGRESS REPORTS [RCSA § 22a-174-33(q)(1)]

The permittee shall, on January 30 and July 30 of each year, or on a more frequent schedule if specified in this permit, submit to the Commissioner a progress report on forms prescribed by the Commissioner, and certified in accordance with Section 22a-174-2a(a)(5) of the RCSA. Such report shall describe the permittee's progress in achieving compliance under the compliance plan schedule contained in this permit. Such progress report shall:

1. Identify those obligations under the compliance plan schedule in the permit which the permittee has met, and the dates on which they were met; and

2. Identify those obligations under the compliance plan schedule in this permit which the permittee has not timely met, explain why they were not timely met, describe all measures taken or to be taken to meet them and identify the date by which the permittee expects to meet them.

Any progress report prepared and submitted pursuant to Section 22a-174-33(q)(1) of the RCSA shall be simultaneously submitted by the permittee to the Administrator.

H. COMPLIANCE CERTIFICATIONS [RCSA § 22a-174-33(q)(2)]

The permittee shall, on January 30 of each year, or on a more frequent schedule if specified in this permit, submit to the Commissioner, a written compliance certification certified in accordance with Section 22a-174-2a(a)(5) of the RCSA and which includes the information identified in Title 40 CFR 70.6(c)(5)(iii)(A) to (C), inclusive.

Any compliance certification prepared and submitted pursuant to Section 22a-174-33(q)(2) of the RCSA shall be simultaneously submitted by the permittee to the Administrator.

I. PERMIT DEVIATION NOTIFICATIONS [RCSA § 22a-174-33(p)]

Notwithstanding Subsection D of Section VII of this permit, the permittee shall notify the Commissioner in writing, on forms prescribed by the Commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:

1. For any hazardous air pollutant, no later than twenty-four (24) hours after such deviation commenced; and

2. For any other regulated air pollutant, no later than ten (10) days after such deviation commenced.

J. PERMIT RENEWAL [RCSA § 22a-174-33(j)(1)(B)]

All of the terms and conditions of this permit shall remain in effect until the renewal permit is issued or denied provided that a timely renewal application is filed in accordance with Sections 22a –174-33(g), -33(h), and –33(i) of the RCSA.

Section VII: Title V Requirements

K. OPERATE IN COMPLIANCE [RCSA § 22a-174-33(j)(1)(C)]

The permittee shall operate the source in compliance with the terms of all applicable regulations, the terms of this permit, and any other applicable provisions of law. In addition, any noncompliance constitutes a violation of the Clean Air Act and Chapter 446c of the Connecticut General Statutes and is grounds for federal and/or state enforcement action, permit termination, revocation and reissuance, or modification, and denial of a permit renewal application.

L. COMPLIANCE WITH PERMIT [RCSA § 22a-174-33(j)(1)(G)]

This permit shall not be deemed to:

1. preclude the creation or use of emission reduction credits or the trading of such credits in accordance with Sections 22a-174-33(j)(1)(I) and 22a-174-33(j)(1)(P) of the RCSA, provided that the Commissioner's prior written approval of the creation, use, or trading is obtained;

2. authorize emissions of an air pollutant so as to exceed levels prohibited under 40 CFR Part 72;

3. authorize the use of allowances pursuant to 40 CFR Parts 72 through 78, inclusive, as a defense to noncompliance with any other applicable requirement; or

4. impose limits on emissions from items or activities specified in Sections 22a-174-33(g)(3)(A) and (B) of the RCSA unless imposition of such limits is required by an applicable requirement.

M. INSPECTION TO DETERMINE COMPLIANCE [RCSA § 22a-174-33(j)(1)(M)]

The Commissioner may, for the purpose of determining compliance with the permit and other applicable requirements, enter the premises at reasonable times to inspect any facilities, equipment, practices, or operations regulated or required under the permit; to sample or otherwise monitor substances or parameters; and to review and copy relevant records lawfully required to be maintained at such premises in accordance with this permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

N. PERMIT AVAILABILITY

The permittee shall have available at the facility at all times a copy of this Title V Operating Permit.

O. SEVERABILITY CLAUSE [RCSA § 22a-174-33(j)(1)(R)]

The provisions of this permit are severable. If any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the remainder of this permit and the application of such provision to other circumstances shall not be affected.

P. NEED TO HALT OR REDUCE ACTIVITY [RCSA § 22a-174-33(j)(1)(T)]

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

Section VII: Title V Requirements

Q. PERMIT REQUIREMENTS [RCSA § 22a-174-33(j)(1)(V)]

The filing of an application or of a notification of planned changes or anticipated noncompliance does not stay the permittee's obligation to comply with this permit.

R. PROPERTY RIGHTS [RCSA § 22a-174-33(j)(1)(W)]

This permit does not convey any property rights or any exclusive privileges. This permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby, including Section 4-181a(b) of the Connecticut General Statutes and Section 22a-3a-5(b) of the RCSA. This permit shall neither create nor affect any rights of persons who are not parties to this permit.

S. ALTERNATIVE OPERATING SCENARIO RECORDS [RCSA § 22a-174-33(o)(3)]

The permittee shall, contemporaneously with making a change authorized by this permit from one alternative operating scenario to another, maintain a record at the premises indicating when changes are made from one operating scenario to another and shall maintain a record of the current alternative operating scenario.

T. OPERATIONAL FLEXIBILITY AND OFF-PERMIT CHANGES [RCSA § 22a-174-33(r)(2)]

The permittee may engage in any action allowed by the Administrator in accordance with 40 CFR 70.4(b)(12)(i) to (iii)(B) inclusive, and 40 CFR 70.4(b)(14)(i) to (iv), inclusive without a Title V non-minor permit modification, minor permit modification or revision and without requesting a Title V non-minor permit modification, minor permit modification or revision provided such action does not:

1. constitute a modification under 40 CFR 60, 61 or 63,

2. exceed emissions allowable under the subject permit,

3. constitute an action which would subject the permittee to any standard or other requirement pursuant to 40 CFR 72 to 78, inclusive, or

4. constitute a non-minor permit modification pursuant to Section 22a-174-2a(d)(4) of the RCSA.

At least seven (7) days before initiating an action specified in Section 22a-174-33(r)(2)(A) of the RCSA, the permittee shall notify the Administrator and the Commissioner in writing of such intended action.

U. INFORMATION FOR NOTIFICATION [RCSA § 22a-174-33(r)(2)(A)]

Written notification required under Section 22a-174-33(r)(2)(A) of the RCSA shall include a description of each change to be made, the date on which such change will occur, any change in emissions that may occur as a result of such change, any Title V permit terms and conditions that may be affected by such change, and any applicable requirement that would apply as a result of such change. The permittee shall thereafter maintain a copy of such notice with the Title V permit. The Commissioner and the permittee shall each attach a copy of such notice to their copy of the permit.

Section VII: Title V Requirements

V. TRANSFERS [RCSA § 22a-174-2a(g)]

No person other than the permittee shall act or refrain from acting under the authority of this permit unless this permit has been transferred to another person in accordance with Section 22a-174-2a(g) of the RCSA.

The proposed transferor and transferee of a permit shall submit to the Commissioner a request for a permit transfer on a form provided by the Commissioner. A request for a permit transfer shall be accompanied by any fees required by any applicable provision of the general statutes or regulations adopted thereunder. The Commissioner may also require the proposed transferee to submit with any such request, the information identified in CGS Section 22a-6m.

W. REVOCATION [RCSA § 22a-174-2a(h)]

The Commissioner may revoke this permit on his own initiative or on the request of the permittee or any other person, in accordance with Section 4-182c of the Connecticut General Statutes, Section 22a-3a-5(d) of the RCSA, and any other applicable law. Any such request shall be in writing and contain facts and reasons supporting the request. The permittee requesting revocation of this permit shall state the requested date of revocation and provide the Commissioner with satisfactory evidence that the emissions authorized by this permit have been permanently eliminated.

Pursuant to the Clean Air Act, the Administrator has the power to revoke this permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this permit if the Administrator has determined that the Commissioner failed to act in a timely manner on a permit renewal application.

This permit may be modified, revoked, reopened, reissued, or suspended by the Commissioner, or the Administrator in accordance with Section 22a-174-33(r) of the RCSA, Connecticut General Statutes Section 22a-174c, or Section 22a-3a-5(d) of the RCSA.

X. REOPENING FOR CAUSE [RCSA § 22a-174-33(s)]

This permit may be reopened by the Commissioner, or the Administrator in accordance with Section 22a-174-33(s) of the RCSA.

Y. CREDIBLE EVIDENCE

Notwithstanding any other provision of this permit, for the purpose of determining compliance or establishing whether a permittee has violated or is in violation of any permit condition, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information.